

acadiance[®]math

Concepts and Applications

Level 6 | Progress Monitoring

Teacher Key

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Scoring Direction

Right to Left
or

Left to Right

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Total: _____

1. At the aquarium, there were 19 sea lions and 51 jellyfish. What is the ratio of sea lions to jellyfish? 19 : 51
or equivalent

exact answer,
points per line 1 | 2

2. May likes to go fishing. Each day she caught a certain number of fish. The following are the number of fish that May caught per day: **4, 7, 8, 2, 9.**

A. What is the mean number of fish that May caught? 6

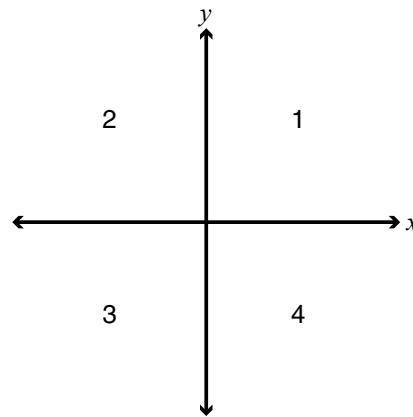
A. correct digits 1 | 11

B. What is the median number of fish that May caught? 7

B. exact answer,
points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(-3, 2)	2
(6, 4)	1
(9, -2)	4
(-4, -7)	3



exact answer, $\frac{1}{2}$
points per box 3 | 1
2 | 2
3 | 3

4. A. Write an expression for **9 subtracted from x**: $x - 9$

A. exact answer,
points per line 1 | 3

B. Write an expression for **3 added to x**: $x + 3$
or equivalent

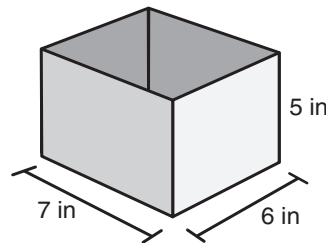
B. exact answer,
points per line 1 | 3

5. Chloe has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 210 in³.

B. How many dice will fit inside Chloe's box?

1,680 dice.



A. correct digits 1 | 3
2 | 6
3 | 10

B. correct digits 1 | 8
2 | 16
3 | 24
4 | 33

6. Sophie builds 8 birdhouses in 4 weeks. At this rate, how long will it take her to build 6 birdhouses?

3 week(s).

correct digits 1 | 6

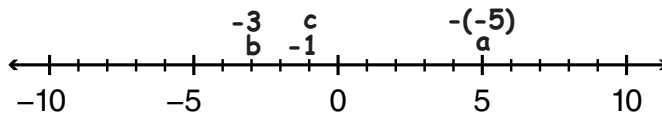
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7. Label the following numbers on the number line below:

a. $-(-5)$

b. -3

c. -1



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$41x + 3 < 100$	4	False
$20x - 9 < 100$	3	True

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

7	5
14	10
21	15
28	20
35	25

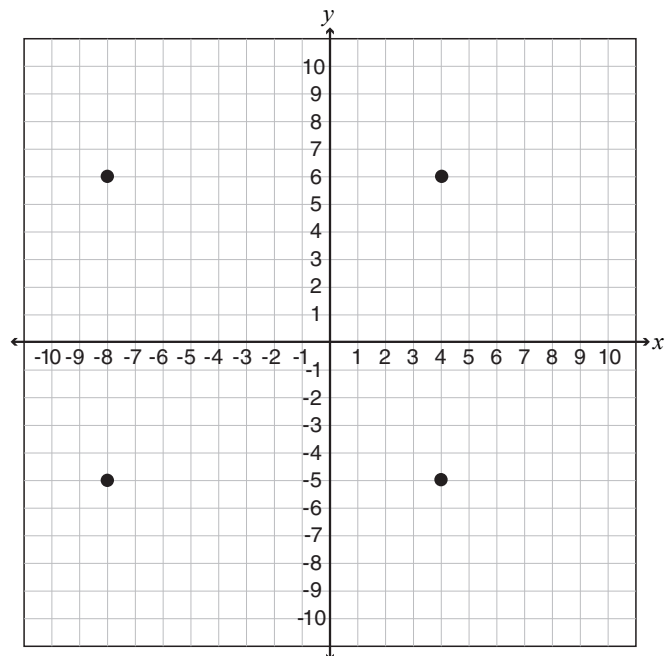
exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. Emilio is plotting the location of bears at the zoo on a graph.

The bears are located at
 $(4, 6)$, $(4, -5)$, $(-8, -5)$.

A. If the vertices form a rectangle, find the location of the last vertex: (-8, 6)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 (correct points plotted) 2 | 2
 3 | 3
 4 | 4

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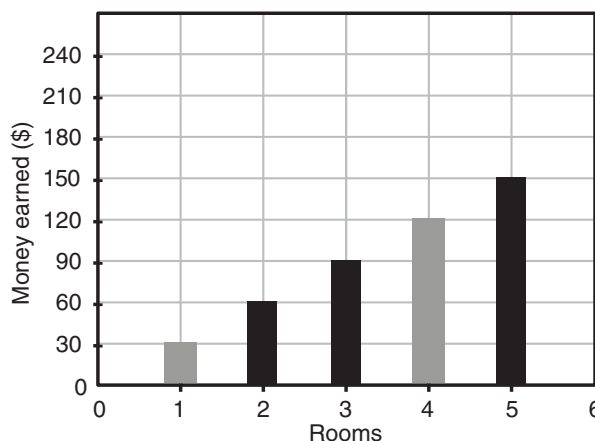
11. Avery gets paid for painting rooms. Avery earns \$30 for each room.

A. Fill in the table below to determine how much money Avery earned.

Room	Money Earned
1	\$30
2	\$60
3	\$90
4	\$120
5	\$150

B. Write an equation that illustrates the relationship between the number of rooms (r) and the money earned (m): $m = 30r$

C. Make a bar graph for the amount of money earned:



A. exact answer, $\frac{1}{2}$ | **2**
points per box $\frac{3}{3}$ | **3**

B. exact answer, points per line 1 | **4**

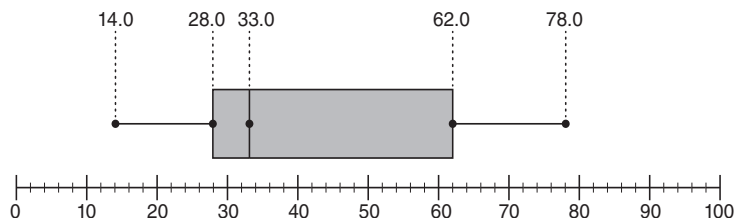
C. exact answer, points per segment $\frac{1}{2}$ | **2**
(each bar graphed) $\frac{3}{3}$ | **3**

12. You bought 8 boxes of crackers for \$24. If all the boxes of crackers cost the same, what is the cost for each box of crackers?

\$ 3 per box of crackers.

correct digits 1 | **4**

13. Below is the number of minutes dog owners walked their dogs:



What is the range of the minutes walked? 64

What is the median number of the minutes walked? 33

What is the maximum number of the minutes walked? 78

exact answer, $\frac{1}{2}$ | **2**
points per line $\frac{3}{3}$ | **6**

14. Diver A dove to a sea level depth of -17 feet. Diver B dove to -20 feet.

Which diver dove deeper? Diver B

Diver A was how many feet under water? 17 feet

exact answer, $\frac{1}{2}$ | **1**
points per line $\frac{2}{2}$ | **2**

15. $3^3 =$ 27

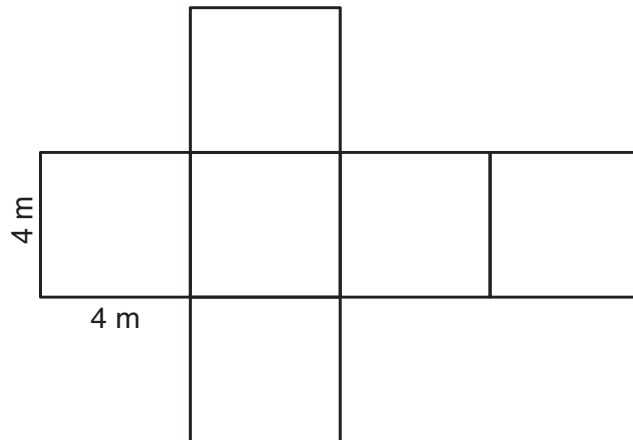
correct digits $\frac{1}{2}$ | **3**
 $\frac{7}{7}$

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16. Harry wanted to figure out the surface area of a box.

What is the surface area of the box?

96 m².



correct digits $\begin{array}{l|l} 1 & 4 \\ 2 & 9 \end{array}$

17. Griffin can run 2 miles in 12 minutes. If he runs at a constant speed, how long will it take him to run 5 miles?

30 minutes.

correct digits $\begin{array}{l|l} 1 & 4 \\ 2 & 8 \end{array}$

18. What is the greatest common factor of 42 and 56? 14

exact answer,
points per line $1 \mid 8$

19. Paisley ate 7 more than 8 times the number of chocolates that Cooper ate.

Let C = the number of chocolates that Cooper ate.

Write an equation using x that describes how many chocolates Paisley ate. $X = 8C + 7$
or equivalent

exact answer,
points per line $1 \mid 5$

20. Akari's house is 9 feet below sea level. Tristan's house is 8 feet above sea level. Write an inequality that shows the relationship between these two houses: $-9 < 8$

exact answer,
points per line $1 \mid 4$

Scoring Direction

←
Right to Left

or

→
Left to Right

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Total: _____

1. At the beach, there were 58 seagulls and 19 pelicans. What is the ratio of seagulls to pelicans? 58 : 19
or equivalent

exact answer,
points per line 1 | 2

2. Tomas liked to draw comics. Each day he drew a certain number of comics. The following are the number of comics that Tomas drew per day: **1, 9, 4, 3, 8.**

A. What is the mean number of comics that Tomas drew? 5

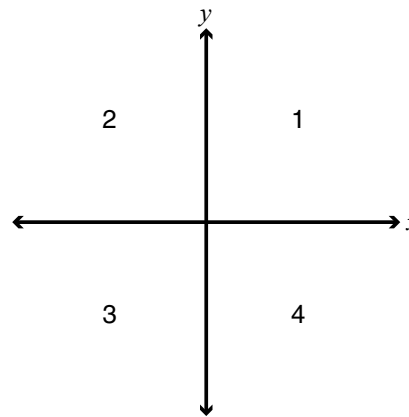
A. correct digits 1 | 11

B. What is the median number of comics that Tomas drew? 4

B. exact answer,
points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(-8, 7)	2
(-4, -1)	3
(4, 6)	1
(2, -5)	4



exact answer, $\frac{1}{2}$ | 1
points per box 3 | 2

4. A. Write an expression for **9 subtracted from x** : $x - 9$

A. exact answer,
points per line 1 | 3

B. Write an expression for **8 added to x** : $x + 8$
or equivalent

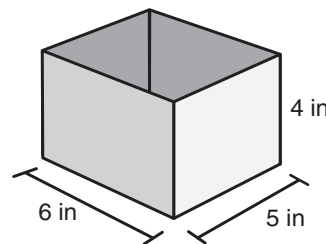
B. exact answer,
points per line 1 | 3

5. Alejandro has a box and a bag of blocks. The blocks are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 120 in³.

B. How many blocks will fit inside Alejandro's box?

960 blocks.



A. correct digits $\frac{1}{2}$ | 3
3 | 6

B. correct digits $\frac{1}{2}$ | 7
3 | 15

6. Jacob does 6 chores every 2 weeks. At this rate, how many weeks will it take him to do 9 chores?

3 week(s).

correct digits 1 | 6

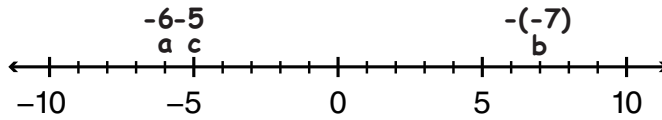
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7. Label the following numbers on the number line below:

a. -6

b. $-(-7)$

c. -5



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$33x + 9 < 100$	5	False
$48x - 3 < 100$	7	False

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

8	4
16	8
24	12
32	16
40	20

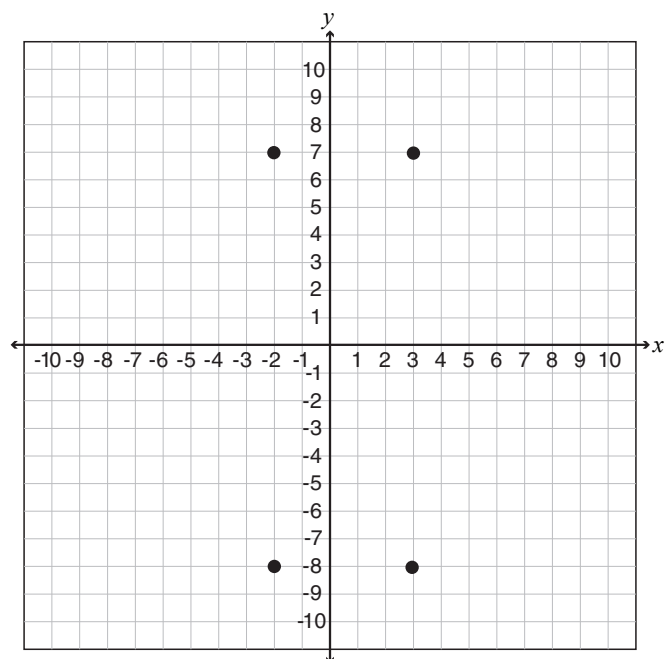
exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. David is plotting the location of icebergs in the bay on a graph.

The icebergs are located at
 $(3, 7)$, $(3, -8)$, $(-2, -8)$.

A. If the vertices form a rectangle, find the location of the last vertex: (-2, 7)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 2 | 2
 3 | 3
 (correct points plotted) 4 | 4

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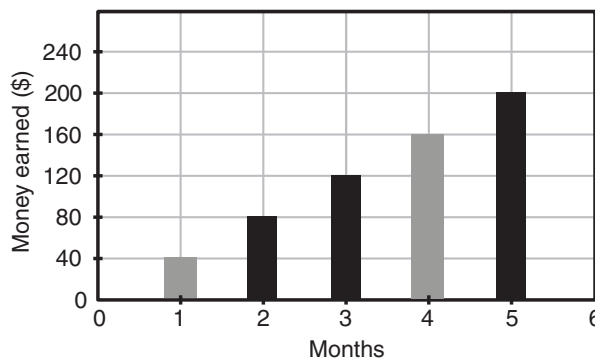
11. Max gets paid to mow lawns. Max earns \$40 per week.

A. Fill in the table below to determine how much money Max earned.

Month	Money Earned
1	\$40
2	\$80
3	\$120
4	\$160
5	\$200

B. Write an equation that illustrates the relationship between the number of weeks (w) and the money earned (m): $m = 40w$

C. Make a bar graph for the amount of money earned:



A. exact answer, 1 | 1
2 | 2
3 | 3

B. exact answer, 1 | 4
points per line

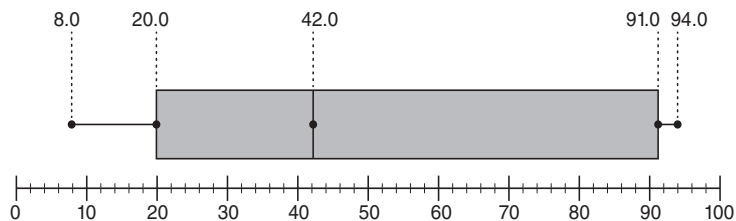
C. exact answer, 1 | 1
points per segment 2 | 2
(each bar graphed) 3 | 3

12. You bought 7 cans of tuna for \$21. If all the cans cost the same, what is the cost for each can of tuna?

\$ 3 per can of tuna.

correct digits 1 | 4

13. Below is the number of minutes the athletes ran:



What is the range of the minutes run? 86

What is the median number of the minutes run? 42

What is the maximum number of the minutes run? 94

exact answer, 1 | 2
points per line 2 | 4
3 | 6

14. Diver A dove to a sea level depth of -38 feet. Diver B dove to -73 feet.

Which diver dove deeper? Diver B

Diver A was how many feet under water? 38 feet

exact answer, 1 | 1
points per line 2 | 2

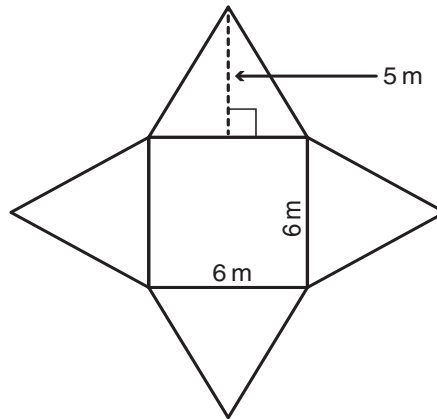
15. $5^3 =$ 125

correct digits 1 | 3
2 | 7
3 | 10

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16. Casey wanted to figure out the surface area of a pyramid. What is the surface area of the pyramid?

96 m².



correct digits $\begin{array}{r} 1 \\ 2 \end{array} \bigg| \begin{array}{r} 11 \\ 22 \end{array}$

17. Kim can run 5 miles in 35 minutes. If she runs at a constant speed, how long will it take her to run 7 miles?

49 minutes.

correct digits $\begin{array}{r} 1 \\ 2 \end{array} \bigg| \begin{array}{r} 4 \\ 8 \end{array}$

18. What is the greatest common factor of 12 and 21? 3

exact answer,
points per line $1 \bigg| 8$

19. Robert scored 8 more than 2 times the touchdowns that Jason scored.

Let J = the number of touchdowns that Jason scored.

Write an equation using x that describes how many touchdowns Robert scored. $X = 2J + 8$
 or equivalent

exact answer,
points per line $1 \bigg| 5$

20. Violet's house is 5 feet below sea level. Miguel's house is 9 feet above sea level. Write an inequality that shows the relationship between these two houses: $-5 < 9$

exact answer,
points per line $1 \bigg| 4$

Scoring Direction

Right to Left
or

Left to Right

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Total: _____

1. In the garden there are 47 worms and 49 beetles. What is the ratio of worms to beetles? 47 : 49
or equivalent

exact answer,
points per line 1 | 2

2. Madeline took a quiz each week in science class. The maximum score she can get on her quiz is 9 points. The following are her scores: **9, 7, 3, 4, 2**.

A. What is the mean of Madeline's scores? 5

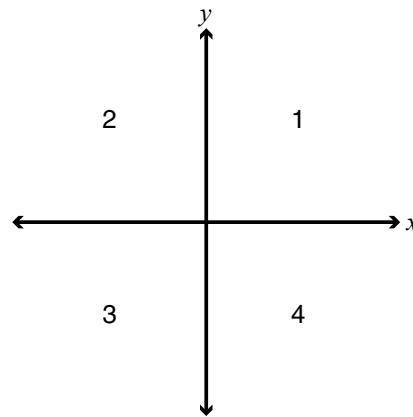
A. correct digits 1 | 11

B. What is the median of Madeline's scores? 4

B. exact answer,
points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(9, -5)	4
(-7, 6)	2
(-6, -5)	3
(6, 6)	1



exact answer, $\frac{1}{2}$ | 1
points per box 2 | 3

4. A. Write an expression for **3 subtracted from x**: $x - 3$

A. exact answer,
points per line 1 | 3

B. Write an expression for **4 added to x**: $x + 4$
or equivalent

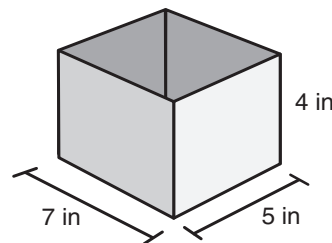
B. exact answer,
points per line 1 | 3

5. Joseph has a box and a bag of blocks. The blocks are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 140 in³.

B. How many blocks will fit inside Joseph's box?

1,120 blocks.



A. correct digits $\frac{1}{2}$ | 3
3 | 10

B. correct digits $\frac{1}{2}$ | 7
2 | 13
3 | 19
4 | 26

6. Mika rides her bike 6 times every 3 weeks. At this rate, how many weeks will it take her to ride 8 times?

4 week(s).

correct digits 1 | 6

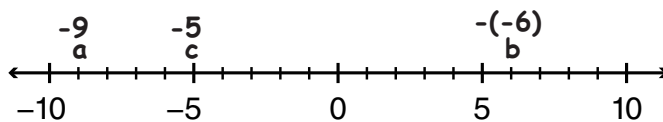
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7. Label the following numbers on the number line below:

a. -9

b. $-(-6)$

c. -5



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$45x - 6 < 100$	3	False
$25x + 7 < 100$	5	False

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

4	5
8	10
12	15
16	20
20	25

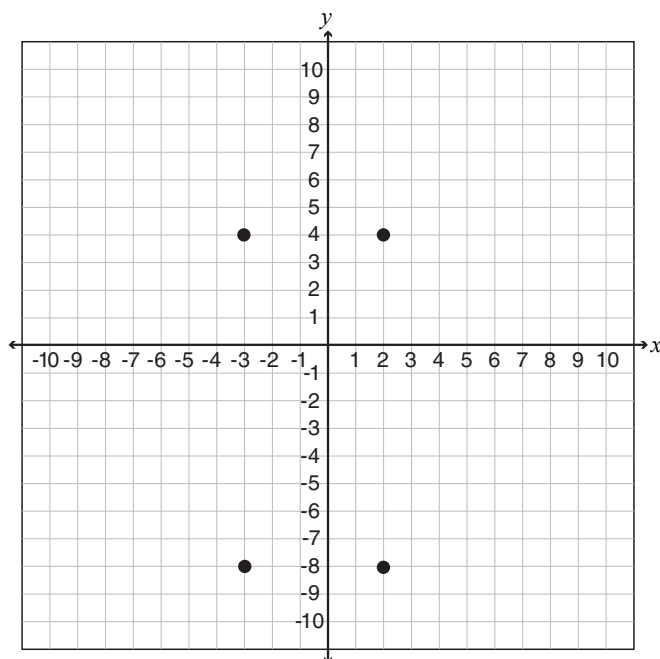
exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. August is plotting the location of flowers on a graph.

The flowers are located at
 $(2, 4)$, $(2, -8)$, $(-3, -8)$.

A. If the vertices form a rectangle, find the location
 of the last vertex: (-3, 4)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 2 | 2
 3 | 3
 (correct points plotted) 4 | 4

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Level 6 / Progress Monitoring 3 / Teacher Key**

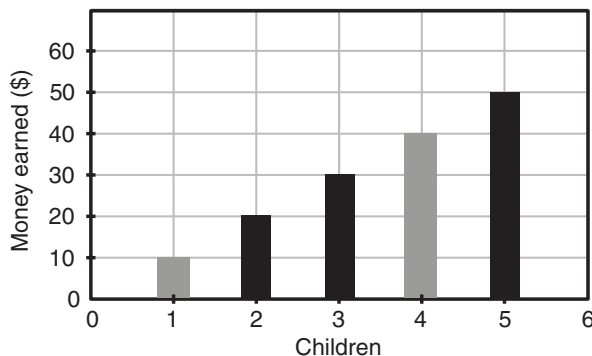
11. Billy is paid \$10 for each child he babysits.

A. Fill in the table below to determine how much money Billy earned.

Child	Money Earned
1	\$10
2	\$20
3	\$30
4	\$40
5	\$50

B. Write an equation that illustrates the relationship between the number of children (c) and the money earned (m): $m = 10c$

C. Make a bar graph for the amount of money earned:



A. exact answer, $\frac{1}{2}$ | $\frac{1}{2}$
points per box 3 | 3

B. exact answer, points per line 1 | 4

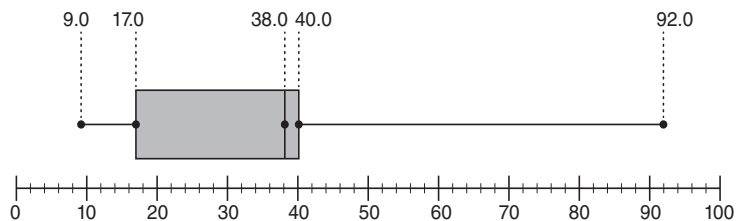
C. exact answer, points per segment $\frac{1}{2}$ | $\frac{1}{2}$
(each bar graphed) 3 | 3

12. You bought 7 pool toys for \$63. If all the pool toys cost the same, what is the cost for each pool toy?

\$ 9 per pool toy.

correct digits 1 | 4

13. Below is the number of minutes that the class hiked:



What is the range of the minutes hiked? 83

What is the median number of the minutes hiked? 38

What is the maximum number of the minutes hiked? 92

exact answer, $\frac{1}{2}$ | $\frac{2}{4}$
points per line 3 | 6

14. Diver A dove to a sea level depth of -81 feet. Diver B dove to -79 feet.

Which diver dove deeper? Diver A

Diver A was how many feet under water? 81 feet

exact answer, $\frac{1}{2}$ | $\frac{1}{2}$
points per line 2 | 2

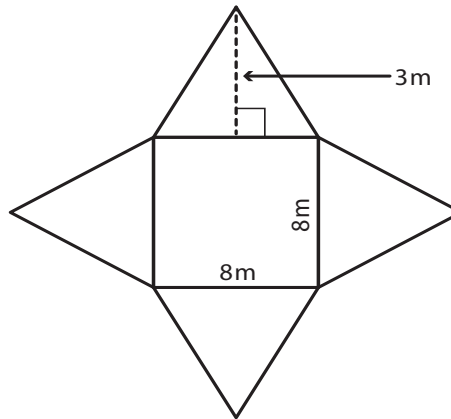
15. $4^3 =$ 64

correct digits 1 | 4
2 | 9

**Acadience® Math / Concepts and Applications
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16. Ali wanted to figure out the surface area of a pyramid. What is the surface area of the pyramid?

112 m².



correct digits $\begin{array}{r} 1 \\ 2 \\ 3 \end{array} \bigg| \begin{array}{r} 7 \\ 15 \\ 23 \end{array}$

17. Carlos can run 6 miles in 48 minutes. If he runs at a constant speed, how long will it take him to run 9 miles?

72 minutes.

correct digits $\begin{array}{r} 1 \\ 2 \end{array} \bigg| \begin{array}{r} 4 \\ 8 \end{array}$

18. What is the greatest common factor of 24 and 18? 6

exact answer,
points per line $1 \bigg| 8$

19. Kim threw 6 more than 7 times the number of balls that Jan threw.

Let J = the number of balls that Jan threw.

Write an equation using x that describes how many balls Kim threw. $X = 7J + 6$
or equivalent

exact answer,
points per line $1 \bigg| 5$

20. Nat's house is 2 feet below sea level. Anna's house is 4 feet above sea level. Write an inequality that shows the relationship between these two houses: $-2 < 4$

exact answer,
points per line $1 \bigg| 4$

Scoring Direction

Right to Left
or

Left to Right

Acadience® Math / Concepts and Applications Level 6 / Progress Monitoring 4 / Teacher Key

Total: _____

1. At the zoo there were 19 chimpanzees and 17 spider monkeys. What is the ratio of chimpanzees to spider monkeys?

19 : 17
or equivalent

exact answer,
points per line 1 | 2

2. Riley counted the birds that landed at the bird feeder. Each morning he saw a certain number of birds. The following are the number of birds that Riley saw each morning: **2, 3, 5, 9, 1**.

A. What is the mean number of birds that Riley saw? 4

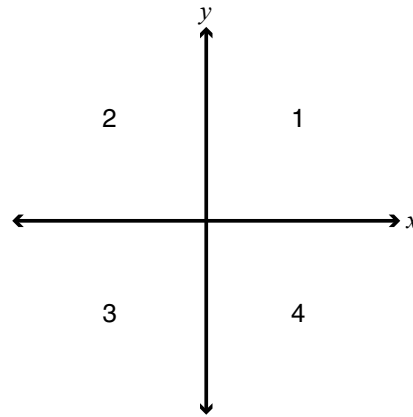
A. correct digits 1 | 11

B. What is the median number of birds that Riley saw? 3

B. exact answer,
points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(5, 5)	1
(-6, 5)	2
(7, -2)	4
(-7, -3)	3



exact answer, $\frac{1}{2}$ | $\frac{1}{3}$
points per box 2 | 3

4. A. Write an expression for **2 subtracted from x**: $x - 2$

A. exact answer,
points per line 1 | 3

B. Write an expression for **3 added to x**: $x + 3$
or equivalent

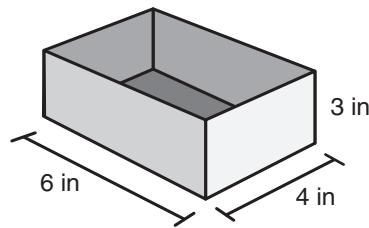
B. exact answer,
points per line 1 | 3

5. Lily has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 72 in³.

B. How many dice will fit inside Lily's box?

576 dice.



A. correct digits $\frac{1}{2}$ | $\frac{4}{9}$

B. correct digits $\frac{1}{2}$ | $\frac{7}{14}$
 $\frac{2}{3}$ | 21

6. It takes Fletcher 4 weeks to finish 2 paintings. At this rate, how long will it take him to finish 4 paintings?

8 week(s).

correct digits 1 | 6

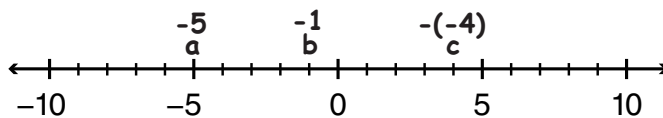
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7. Label the following numbers on the number line below:

a. -5

b. -1

c. $-(-4)$



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$35x - 8 < 100$	2	True
$27x + 8 < 100$	8	False

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

5	7
10	14
15	21
20	28
25	35

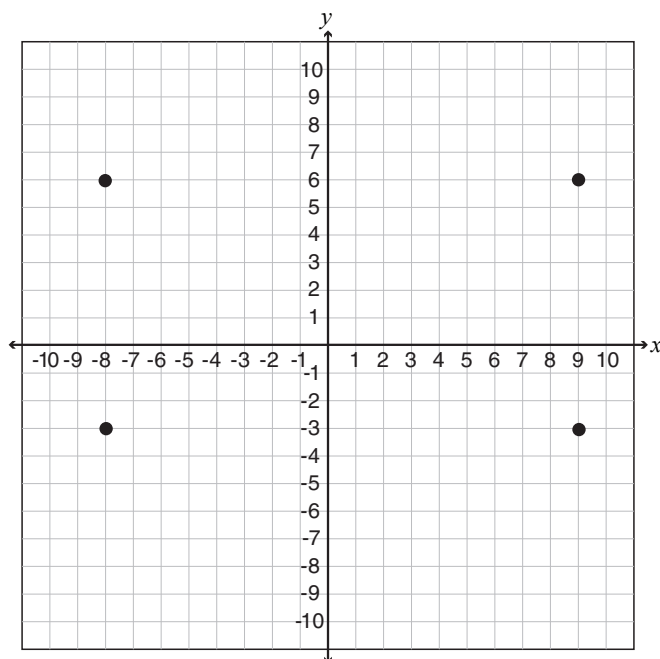
exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. Hatfield is plotting the location of whales in the bay on a graph.

The whales are located at
 $(9, 6)$, $(9, -3)$, $(-8, -3)$.

A. If the vertices form a rectangle, find the location of the last vertex: (-8, 6)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 2 | 2
 3 | 3
 (correct points plotted) 4 | 4

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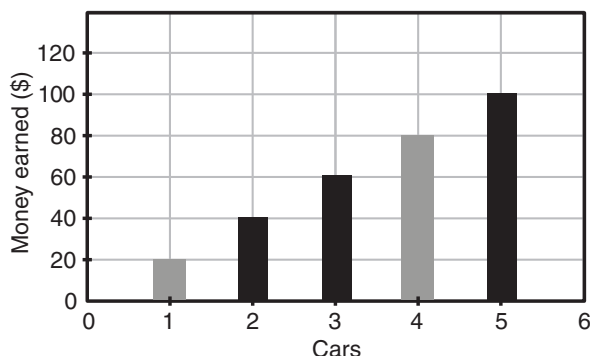
11. Maleah's basketball team is doing a car wash to raise money for their tournament. They earn \$20 for each car that they wash.

A. Fill in the table below to determine how much money Maleah's team earned.

Car	Money Earned
1	\$20
2	\$40
3	\$60
4	\$80
5	\$100

B. Write an equation that illustrates the relationship between the number of cars (c) and the money earned (m): $m = 20c$

C. Make a bar graph for the amount of money earned:



A. exact answer, 1 | 1
 points per box 2 | 2
 3 | 3

B. exact answer, 1 | 4
 points per line

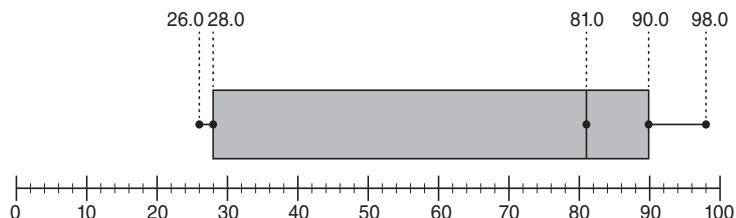
C. exact answer, 1 | 1
 points per segment 2 | 2
 (each bar graphed) 3 | 3

12. You bought 8 loaves of bread for \$32. If all the loaves cost the same, what is the cost for each loaf of bread?

\$ 4 per loaf of bread.

1 | 4

13. Below is the number of minutes that the people jogged:



correct digits

What is the range of the minutes jogged? 72

What is the median number of the minutes jogged? 81

What is the maximum number of the minutes jogged? 98

exact answer, 1 | 2
 points per line 2 | 4
 3 | 6

14. Diver A dove to a sea level depth of -46 feet. Diver B dove to -55 feet.

Which diver dove deeper? Diver B

Diver A was how many feet under water? 46 feet

exact answer, 1 | 1
 points per line 2 | 2

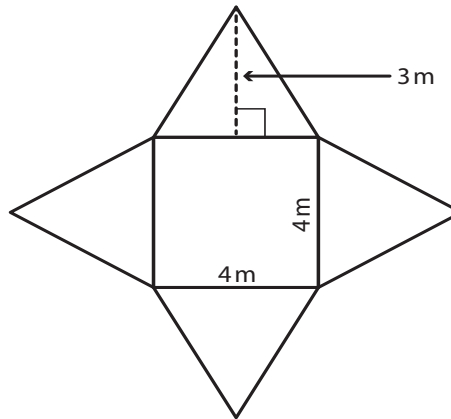
15. $5^3 =$ 125

correct digits 1 | 3
 2 | 7
 3 | 10

Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 4 / Teacher Key

16. Dan wanted to figure out the surface area of a pyramid. What is the surface area of the pyramid?

40 m².



correct digits $\begin{array}{r} 1 \\ 2 \end{array} \mid \begin{array}{r} 10 \\ 20 \end{array}$

17. Astrid can run 5 miles in 40 minutes. If she runs at a constant speed, how long will it take her to run 7 miles?

56 minutes.

correct digits $\begin{array}{r} 1 \\ 2 \end{array} \mid \begin{array}{r} 4 \\ 8 \end{array}$

18. What is the greatest common factor of 18 and 81? 9

exact answer,
points per line $1 \mid 8$

19. Zoe scores 4 more than 7 times the goals that Dorian scored.

Let D = the number of goals that Dorian scored.

Write an equation using x that describes how many goals Zoe scored. $X = 7D + 4$
or equivalent

exact answer,
points per line $1 \mid 5$

20. Joe's house is 6 feet below sea level. Stella's house is 2 feet above sea level. Write an inequality that shows the relationship between these two houses: $-6 < 2$

exact answer,
points per line $1 \mid 4$

Scoring Direction

Right to Left
or

Left to Right

Acadience® Math / Concepts and Applications Level 6 / Progress Monitoring 5 / Teacher Key

Total: _____

1. On the farm, there are 82 chickens and 73 turkeys. What is the ratio of chickens to turkeys? 82 : 73
or equivalent

exact answer,
points per line 1 | 2

2. Alex found seashells on the beach. Each day he found a certain number of seashells. The following are the number of seashells that Alex found each day: **9, 7, 3, 4, 2.**

A. What is the mean number of seashells that Alex found? 5

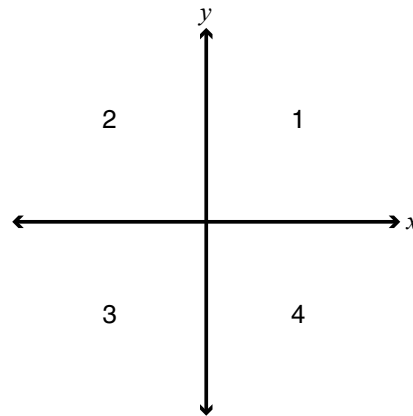
A. correct digits 1 | 11

B. What is the median number of seashells that Alex found? 4

B. exact answer,
points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(-1, 8)	2
(-5, -6)	3
(8, -5)	4
(7, 7)	1



exact answer, $\frac{1}{2}$ | $\frac{1}{2}$
points per box 3 | 3

4. A. Write an expression for **6 subtracted from x** : $x - 6$

A. exact answer,
points per line 1 | 3

B. Write an expression for **9 added to x** : $x + 9$
or equivalent

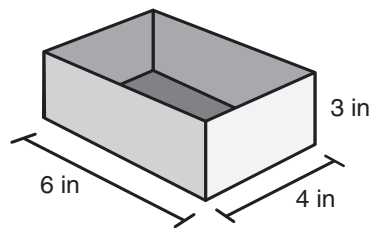
B. exact answer,
points per line 1 | 3

5. Mateo has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 72 in³.

B. How many dice will fit inside Mateo's box?

576 dice.



A. correct digits $\frac{1}{2}$ | $\frac{4}{9}$

B. correct digits $\frac{1}{2}$ | $\frac{7}{14}$
 $\frac{2}{3}$ | $\frac{21}{21}$

6. Marge reads 8 books every 4 weeks. At this rate, how long will it take her to read 6 books?

3 week(s).

correct digits 1 | 6

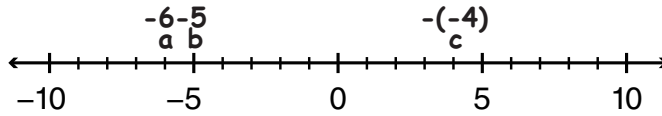
Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 5 / Teacher Key

7. Label the following numbers on the number line below:

a. -6

b. -5

c. $-(-4)$



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$18x + 8 < 100$	3	True
$14x - 4 < 100$	5	True

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

9	6
18	12
27	18
36	24
45	30

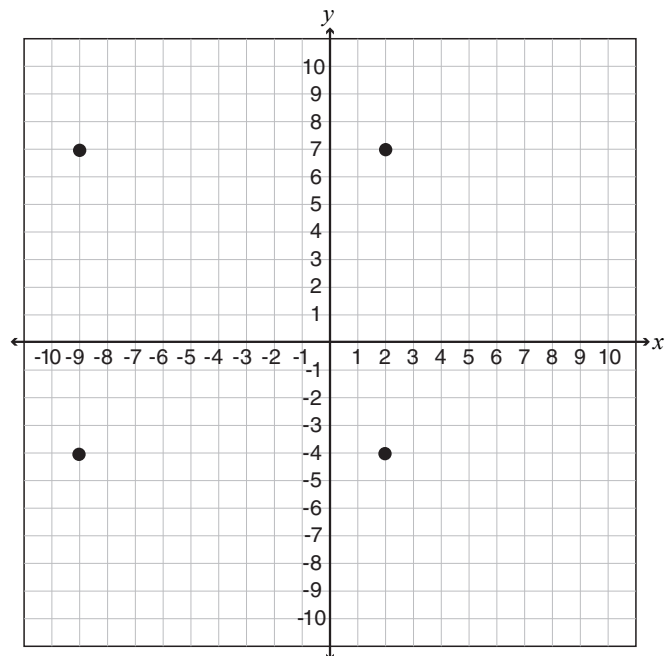
exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. Yanna is plotting the location of lions at the zoo on a graph.

The lions are located at
 $(2, 7)$, $(2, -4)$, $(-9, -4)$.

A. If the vertices form a rectangle, find the location of the last vertex: (-9, 7)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 2 | 2
 3 | 3
 (correct points plotted) 4 | 4

Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 5 / Teacher Key

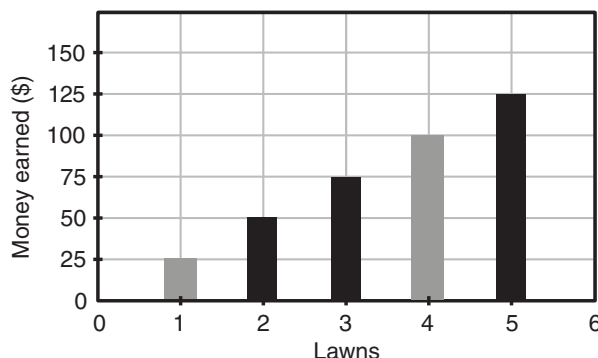
11. Elsie has a summer job mowing lawns. Elsie earns \$25 per lawn.

A. Fill in the table below to determine how much money Elsie earned.

Lawns	Money Earned
1	\$25
2	\$50
3	\$75
4	\$100
5	\$125

B. Write an equation that illustrates the relationship between the number of lawns (l) and the money earned (m): $m = 25l$

C. Make a bar graph for the amount of money earned:



A. exact answer, $\frac{1}{2}$ | **1**
 points per box $\frac{2}{3}$ | **2**
3

B. exact answer, points per line 1 | **4**

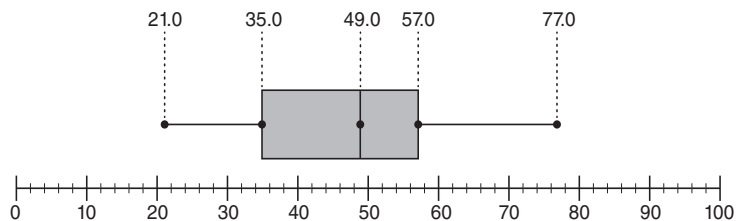
C. exact answer, points per segment $\frac{1}{2}$ | **1**
 (each bar graphed) $\frac{2}{3}$ | **2**
3

12. You bought 9 pies for \$63. If all the pies cost the same, what is the cost for each pie?

\$ **7** per pie.

correct digits 1 | **4**

13. Below is the number of minutes that the elephants spent eating grass:



What is the range of the minutes spent eating? **56**

What is the median number of minutes spent eating? **49**

What is the maximum number of minutes spent eating? **77**

exact answer, $\frac{1}{2}$ | **2**
 points per line $\frac{4}{3}$ | **4**
6

14. Diver A dove to a sea level depth of -15 feet. Diver B dove to -14 feet.

Which diver dove deeper? **Diver A**

Diver A was how many feet under water? **15** feet

exact answer, points per line $\frac{1}{2}$ | **1**
2

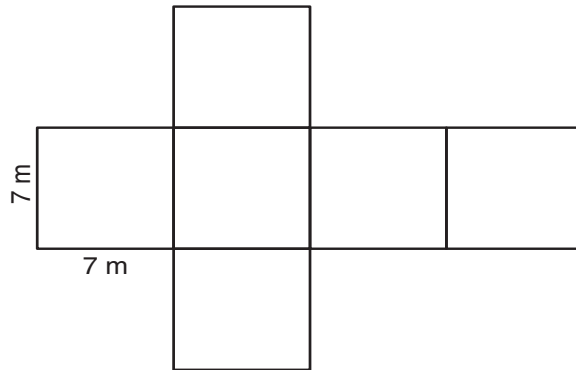
15. $4^2 =$ **16**

correct digits $\frac{1}{2}$ | **2**
4

Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 5 / Teacher Key

16. Rafael wanted to figure out the surface area of a box. What is the surface area of the box?

294 m².



correct digits $\begin{array}{r|l} 1 & 3 \\ 2 & 7 \\ 3 & 10 \end{array}$

17. Peyton can run 2 miles in 14 minutes. If she runs at a constant speed, how long will it take her to run 4 miles?

28 minutes.

correct digits $\begin{array}{r|l} 1 & 4 \\ 2 & 8 \end{array}$

18. What is the greatest common factor of 32 and 16? 16

exact answer,
points per line $1 \mid 8$

19. Titus won 6 more than 9 times the tickets that Ellie won.

Let E = the number of tickets that Ellie won.

Write an equation using x that describes how many tickets Titus won. $x = 9E + 6$
 or equivalent

exact answer,
points per line $1 \mid 5$

20. José's house is 7 feet below sea level. Rick's house is 5 feet above sea level. Write an inequality that shows the relationship between these two houses: $-7 < 5$

exact answer,
points per line $1 \mid 4$

Scoring Direction

Right to Left
or

Left to Right

Acadience® Math / Concepts and Applications Level 6 / Progress Monitoring 6 / Teacher Key

Total: _____

1. At the park, there were 69 trees and 95 bushes. What is the ratio of trees to bushes? 69 : 95
or equivalent

exact answer,
points per line 1 | 2

2. Miles likes to draw. Each day he draws a certain number of pictures. The following are the number of pictures that Miles drew per day: **4, 9, 2, 7, 3**.

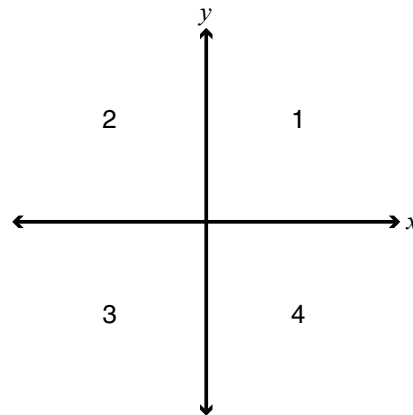
- A. What is the mean number of pictures that Miles drew? 5
- B. What is the median number of pictures that Miles drew? 4

A. correct digits 1 | 11

B. exact answer,
points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(-6, -1)	<u>3</u>
(-6, 9)	<u>2</u>
(3, -2)	4
(9, 8)	<u>1</u>



exact answer, $\frac{1}{2}$ | $\frac{1}{2}$
points per box 3 | 3

4. A. Write an expression for **5 subtracted from x** : $x - 5$

A. exact answer,
points per line 1 | 3

- B. Write an expression for **4 added to x** : $x + 4$
or equivalent

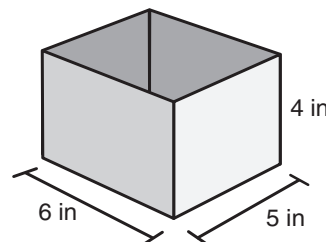
B. exact answer,
points per line 1 | 3

5. Doug has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

- A. What is the volume of the box? 120 in³.

- B. How many dice will fit inside Doug's box?

960 dice.



A. correct digits $\frac{1}{2}$ | $\frac{3}{6}$
3 | 10

B. correct digits $\frac{1}{2}$ | $\frac{7}{15}$
3 | 23

6. Tim hikes 8 miles in 2 weeks. At this rate, how long will it take him to hike 4 miles?

1 week(s).

correct digits 1 | 6

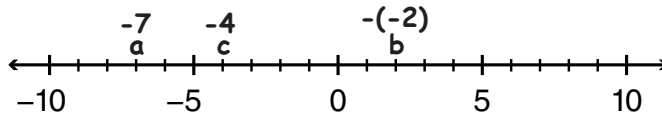
Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 6 / Teacher Key

7. Label the following numbers on the number line below:

a. -7

b. $-(-2)$

c. -4



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$24x + 8 < 100$	4	False
$42x - 7 < 100$	9	False

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

6	9
12	18
18	27
24	36
30	45

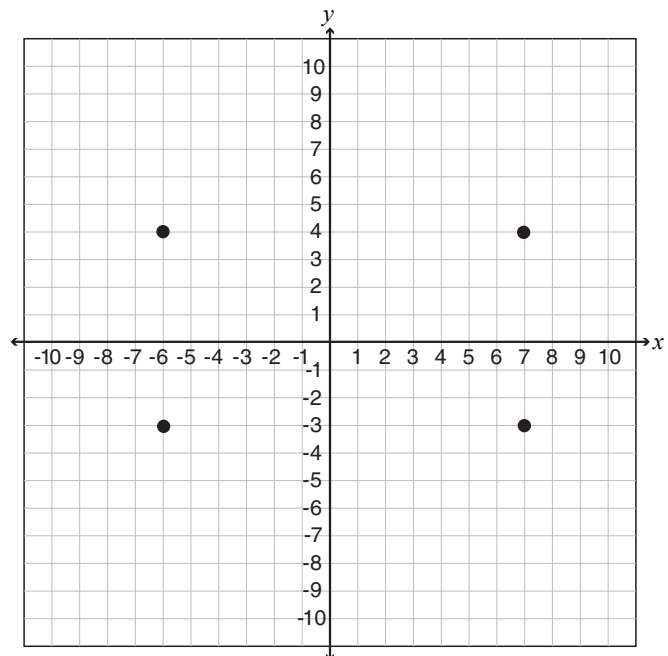
exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. Ken is plotting the location of ponds on a graph.

The ponds are located at
 $(7, 4)$, $(7, -3)$, $(-6, -3)$.

A. If the vertices form a rectangle, find the location
 of the last vertex: (-6, 4)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 2 | 2
 3 | 3
 (correct points plotted) 4 | 4

**Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 6 / Teacher Key**

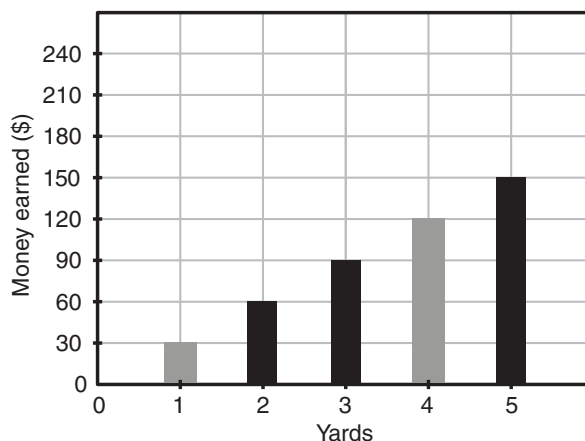
11. Margaret is paid for mowing yards. She earns \$30 per yard.

A. Fill in the table below to determine how much money Margaret earned.

Yards	Money Earned
1	\$30
2	\$60
3	\$90
4	\$120
5	\$150

B. Write an equation that illustrates the relationship between the number of yards (y) and the money earned (m): $m = 30y$

C. Make a bar graph for the amount of money earned:



A. exact answer, 1 | 1
points per box 2 | 2
3 | 3

B. exact answer, 1 | 4
points per line

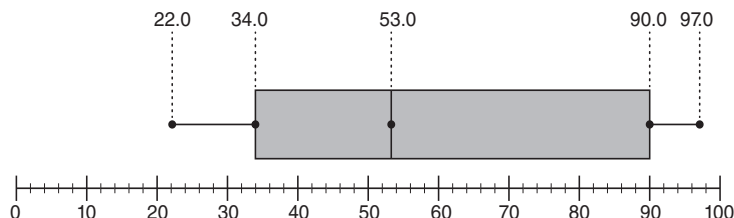
6 C. exact answer, 1 | 1
points per segment 2 | 2
(each bar graphed) 3 | 3

12. You bought 5 notebooks for \$30. If all the notebooks cost the same, what is the cost for each notebook?

\$ 6 per notebook.

correct digits 1 | 4

13. Below is the number of minutes people in a neighborhood spent raking leaves:



What is the range of the minutes spent raking leaves? 75

What is the median number of minutes spent raking leaves? 53

What is the maximum number of minutes spent raking leaves? 97

exact answer, 1 | 2
points per line 2 | 4
3 | 6

14. Diver A dove to a sea level depth of -49 feet. Diver B dove to -60 feet.

Which diver dove deeper? Diver B

Diver A was how many feet under water? 49 feet

exact answer, 1 | 1
points per line 2 | 2

15. $2^2 =$ 4

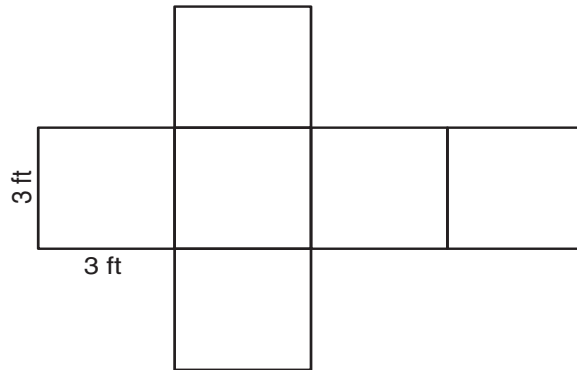
correct digits 1 | 3

Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 6 / Teacher Key

16. Fred wants to figure out the surface area of the box.

What is the surface area of the box?

54 ft².
←



correct digits $\begin{array}{c|c} 1 & 3 \\ 2 & 7 \end{array}$

17. Eric bikes 4 miles in 36 minutes. If he bikes at a constant speed, how long will it take him to bike 7 miles?

63 minutes.
←

correct digits $\begin{array}{c|c} 1 & 4 \\ 2 & 8 \end{array}$

18. What is the greatest common factor of 45 and 18? 9

exact answer,
 points per line $1 \mid 8$

19. José eats 6 more than 4 times the cherries that Sara eats.

Let S = the number of cherries that Sara eats.

Write an equation using x that describes how many cherries José eats. $X = 4S + 6$
 or equivalent

exact answer,
 points per line $1 \mid 5$

20. Jack's house is 9 feet below sea level. Camila's house is 7 feet above sea level. Write an inequality that shows the relationship between these two houses: $-9 < 7$

exact answer,
 points per line $1 \mid 4$

Scoring Direction

 Right to Left
 or
 Left to Right

Acadience® Math / Concepts and Applications Level 6 / Progress Monitoring 7 / Teacher Key

Total: _____

1. At the lake, there were 35 canoes and 53 boats. What is the ratio of canoes to boats? 35 : 53
or equivalent

exact answer,
points per line 1 | 2

2. Dominic walks dogs. Each day he walks a certain number of dogs. The following are the number of dogs that Dominic walked per day: **3, 1, 9, 8, 4.**

A. What is the mean number of dogs that Dominic walked? 5

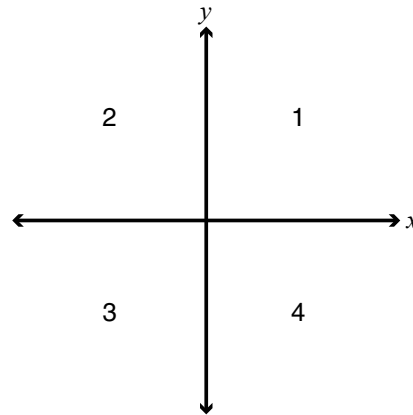
A. correct digits 1 | 11

B. What is the median number of dogs that Dominic walked? 4

B. exact answer,
points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(3, 7)	1
(5, -6)	4
(-8, -1)	3
(-1, 2)	2



exact answer, 1 | 1
points per box 2 | 2
3 | 3

4. A. Write an expression for **6 subtracted from x** : $x - 6$

A. exact answer,
points per line 1 | 3

B. Write an expression for **5 added to x** : $x + 5$
or equivalent

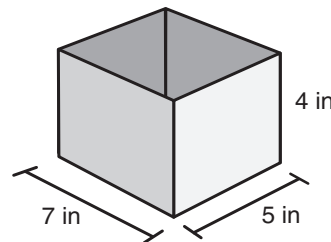
B. exact answer,
points per line 1 | 3

5. Fred has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 140 in³.

B. How many dice will fit inside Fred's box?

1,120 dice.



A. correct digits 1 | 3
2 | 6
3 | 10

B. correct digits 1 | 7
2 | 13
3 | 19
4 | 26

6. Sam bakes 6 cakes in 3 weeks. At this rate, how long will it take him to bake 8 cakes?

4 week(s).

correct digits 1 | 6

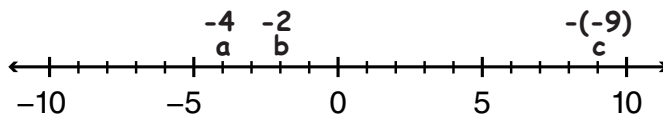
Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 7 / Teacher Key

7. Label the following numbers on the number line below:

a. -4

b. -2

c. $-(-9)$



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$22x + 4 < 100$	5	False
$34x - 5 < 100$	7	False

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

6	7
12	14
18	21
24	28
30	35

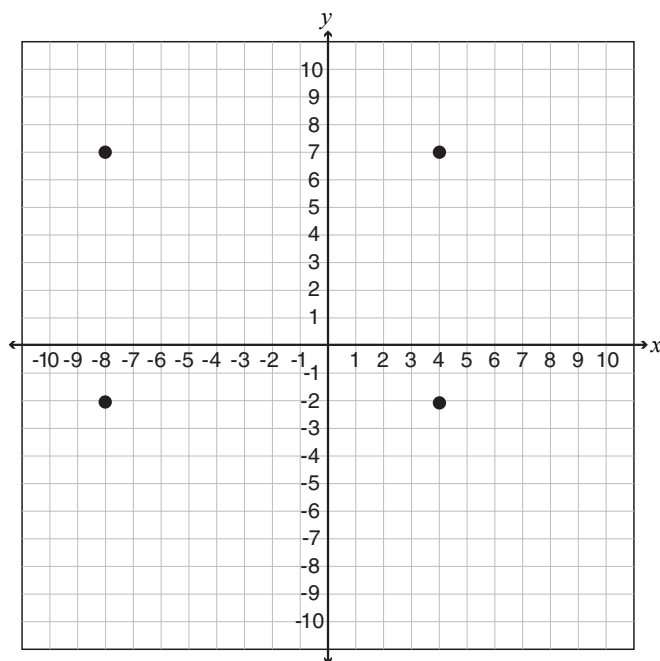
exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. Mary is plotting the location of farms on a graph.

The farms are located at
 $(4, 7)$, $(4, -2)$, $(-8, -2)$.

A. If the vertices form a rectangle, find the location
 of the last vertex: (-8, 7)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 2 | 2
 3 | 3
 (correct points plotted) 4 | 4

Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 7 / Teacher Key

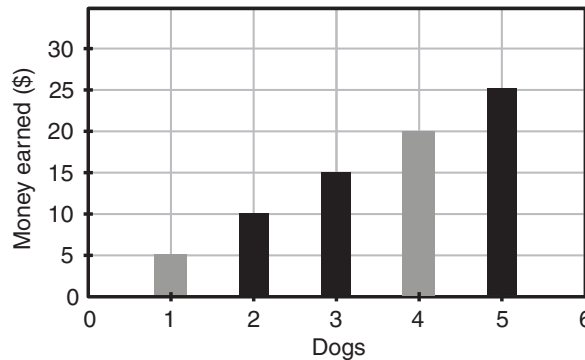
11. Roy is paid for walking dogs. He earns \$5 per dog.

A. Fill in the table below to determine how much money Roy earned.

Dogs	Money Earned
1	\$5
2	\$10
3	\$15
4	\$20
5	\$25

B. Write an equation that illustrates the relationship between the number of dogs (d) and the money earned (m): $m = 5d$

C. Make a bar graph for the amount of money earned:



A. exact answer, $\frac{1}{2}$ | **1**
 points per box $\frac{2}{3}$ | **2**
3

B. exact answer, points per line 1 | **4**

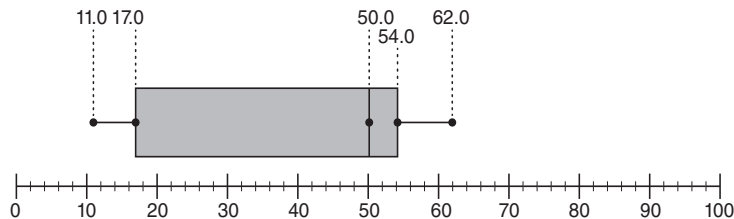
C. exact answer, points per segment $\frac{1}{2}$ | **1**
 (each bar graphed) $\frac{2}{3}$ | **2**
3

12. You bought 5 paintbrushes for \$15. If all the paintbrushes cost the same, what is the cost for each paintbrush?

\$ **3** per paintbrush.

correct digits 1 | **4**

13. Below is the number of minutes students spent on science projects:



What is the range of the minutes spent on science projects? **51**

What is the median number of minutes spent on science projects? **50**

What is the maximum number of minutes spent on science projects? **62**

exact answer, $\frac{1}{2}$ | **2**
 points per line $\frac{4}{6}$ | **4**
6

14. Diver A dove to a sea level depth of -92 feet. Diver B dove to -23 feet.

Which diver dove deeper? **Diver A**

Diver A was how many feet under water? **92** feet

exact answer, $\frac{1}{2}$ | **1**
 points per line $\frac{2}{2}$ | **2**

15. $5^2 =$ **25**

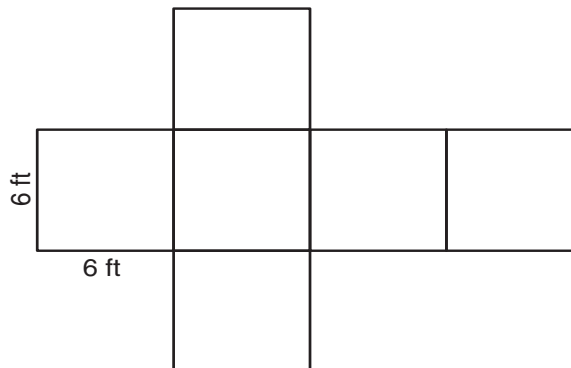
correct digits $\frac{1}{2}$ | **2**
4

Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 7 / Teacher Key

16. John wants to figure out the surface area of the box.

What is the surface area of the box?

216 ft².



correct digits $\begin{array}{r} 1 \\ 2 \\ 3 \end{array} \bigg| \begin{array}{r} 3 \\ 7 \\ 10 \end{array}$

17. Jamal runs 3 miles in 21 minutes. If he runs at a constant speed, how long will it take him to run 8 miles?

56 minutes.

correct digits $\begin{array}{r} 1 \\ 2 \end{array} \bigg| \begin{array}{r} 4 \\ 8 \end{array}$

18. What is the greatest common factor of 24 and 30? 6

exact answer,
points per line $1 \bigg| 8$

19. Zoe eats 6 more than 9 times the jelly beans that Jesse eats.

Let J = the number of jelly beans that Jesse eats.

Write an equation using x that describes how many jelly beans Zoe eats. $X = 9J + 6$
or equivalent

exact answer,
points per line $1 \bigg| 5$

20. Hope's house is 5 feet below sea level. George's house is 6 feet above sea level. Write an inequality that shows the relationship between these two houses: $-5 < 6$

exact answer,
points per line $1 \bigg| 4$

Scoring Direction

Right to Left
or

Left to Right

Acadience® Math / Concepts and Applications Level 6 / Progress Monitoring 8 / Teacher Key

Total: _____

1. In the forest, there were 14 foxes and 35 rabbits. What is the ratio of foxes to rabbits? 14 : 35
or equivalent

exact answer, points per line 1 | 2

2. Charlotte likes to go running. Each day she runs a certain number of miles. The following are the number of miles that Charlotte ran per day: **9, 7, 8, 2, 4.**

A. What is the mean number of miles that Charlotte ran? 6

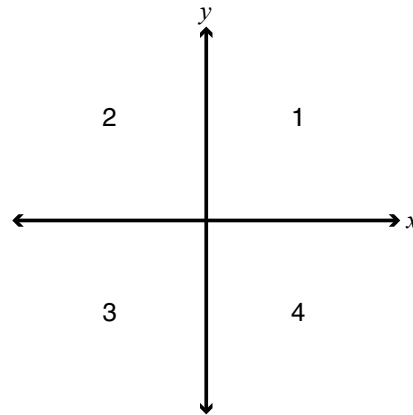
A. correct digits 1 | 11

B. What is the median number of miles that Charlotte ran? 7

B. exact answer, points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(-7, 6)	2
(5, -4)	4
(4, 4)	1
(-6, -4)	3



exact answer, points per box 1 | 2
3 | 3

4. A. Write an expression for **7 subtracted from x** : $x - 7$

A. exact answer, points per line 1 | 3

B. Write an expression for **4 added to x** : $x + 4$
or equivalent

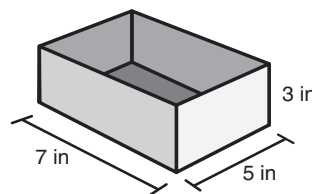
B. exact answer, points per line 1 | 3

5. Emily has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 105 in³.

B. How many dice will fit inside Emily's box?

840 dice.



A. correct digits 1 | 3
2 | 6
3 | 10

B. correct digits 1 | 7
2 | 15
3 | 23

6. Ray makes 9 pies in 3 weeks. At this rate, how long will it take him to make 6 pies?

2 week(s).

correct digits 1 | 6

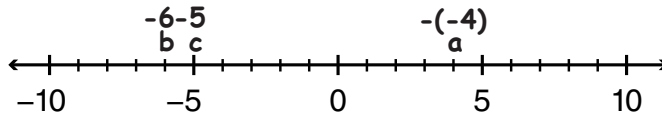
Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 8 / Teacher Key

7. Label the following numbers on the number line below:

a. $-(-4)$

b. -6

c. -5



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$15x + 9 < 100$	7	False
$39x - 6 < 100$	4	False

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

4	8
8	16
12	24
16	32
20	40

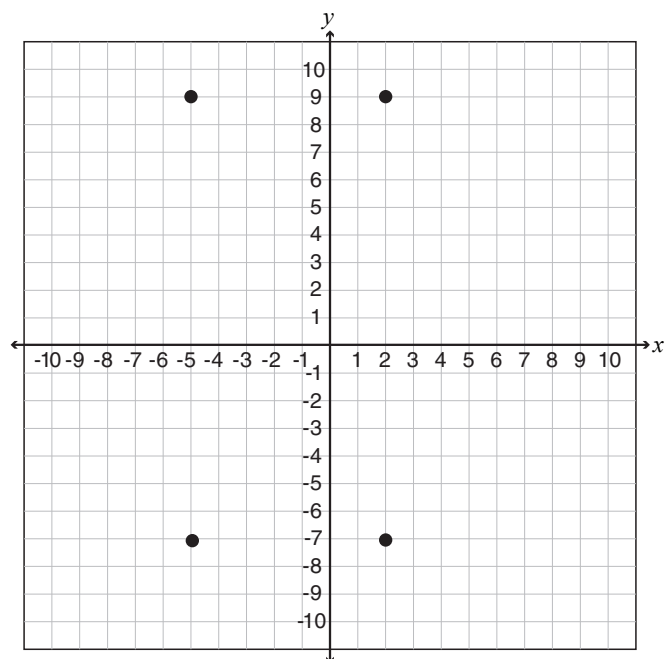
exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. Liam is plotting the location of slides on a graph.

The slides are located at
 $(2, 9)$, $(2, -7)$, $(-5, -7)$.

A. If the vertices form a rectangle, find the location
 of the last vertex: (-5, 9)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 2 | 2
 3 | 3
 (correct points plotted) 4 | 4

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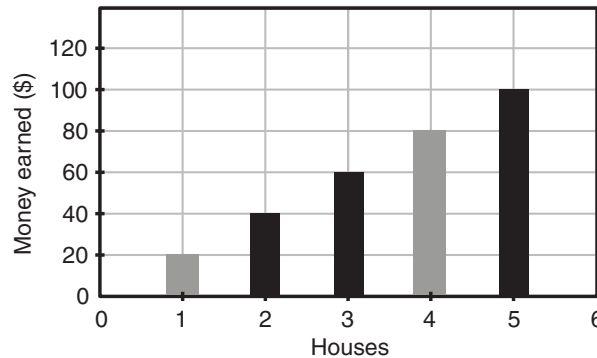
11. Lincoln is paid for house sitting. He earns \$20 per house.

A. Fill in the table below to determine how much money Lincoln earned.

Houses	Money Earned
1	\$20
2	\$40
3	\$60
4	\$80
5	\$100

B. Write an equation that illustrates the relationship between the number of houses (h) and the money earned (m): **$m = 20h$**

C. Make a bar graph for the amount of money earned:



A. exact answer, $\frac{1}{2}$ | **1**
 points per box $\frac{2}{3}$ | **2**
3

B. exact answer, points per line 1 | **4**

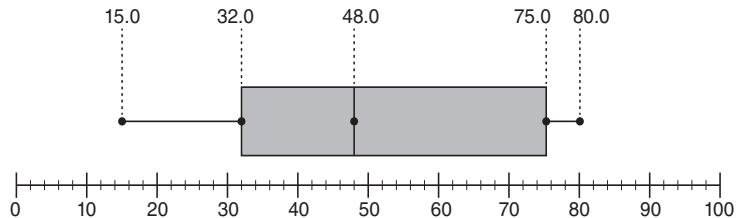
C. exact answer, points per segment $\frac{1}{2}$ | **1**
 (each bar graphed) $\frac{2}{3}$ | **2**
3

12. You bought 9 boxes of pens for \$27. If all the boxes of pens cost the same, what is the cost for each box of pens?

\$ **3** per box of pens.

correct digits 1 | **4**

13. Below is the number of minutes gardeners spent planting seeds:



What is the range of the minutes gardeners spent planting seeds? **65**

What is the median number of minutes gardeners spent planting seeds? **48**

What is the maximum number of minutes gardeners spent planting seeds? **80**

exact answer, $\frac{1}{2}$ | **2**
 points per line $\frac{2}{3}$ | **4**
6

14. Diver A dove to a sea level depth of -83 feet. Diver B dove to -76 feet.

Which diver dove deeper? **Diver A**

Diver A was how many feet under water? **83** feet

exact answer, points per line $\frac{1}{2}$ | **1**
2

15. $2^3 =$ **8**

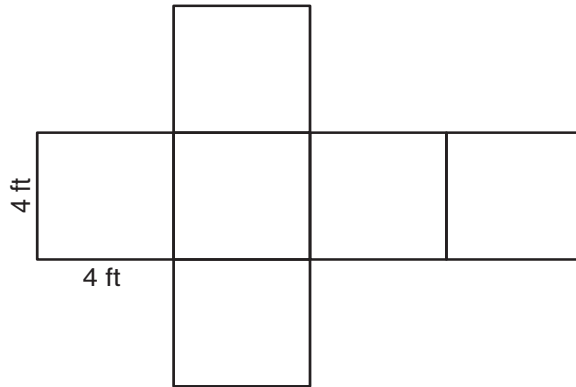
correct digits 1 | **6**

**Acadience® Math / Concepts and Applications
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16. Hank wants to figure out the surface area of the box.

What is the surface area of the box?

96 ft².



correct digits $\begin{array}{c} 1 \\ 2 \end{array} \mid \begin{array}{c} 4 \\ 9 \end{array}$

17. Maria runs 5 miles in 30 minutes. If she runs at a constant speed, how long will it take her to run 8 miles?

48 minutes.

correct digits $\begin{array}{c} 1 \\ 2 \end{array} \mid \begin{array}{c} 4 \\ 8 \end{array}$

18. What is the greatest common factor of 40 and 48? 8

exact answer,
points per line $1 \mid 8$

19. Natalie scores 2 more than 6 times the ping pong points that Diego scores.

Let D = the number of ping pong points that Diego scores.

Write an equation using x that describes how many ping pong points Natalie scores. $X = 6D + 2$
or equivalent

exact answer,
points per line $1 \mid 5$

20. Ron's house is 7 feet below sea level. Pete's house is 6 feet above sea level. Write an inequality that shows the relationship between these two houses: $-7 < 6$

exact answer,
points per line $1 \mid 4$

Scoring Direction

Right to Left
or

Left to Right

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Total: _____

1. In the pond, there were 66 fish and 91 frogs. What is the ratio of fish to frogs? 66 : 91
or equivalent

exact answer, points per line 1 | 2

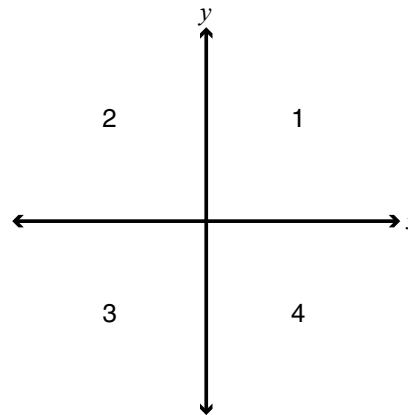
2. Ben plays basketball. Each day he scores a certain number of times. The following are the number of times that Ben scored per day: **3, 1, 6, 8, 2.**

- A. What is the mean number of times that Ben scored? 4
B. What is the median number of times that Ben scored? 3

A. correct digits 1 | 11
B. exact answer, points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(1, 8)	1
(-2, -6)	3
(-2, 7)	2
(8, -9)	4



exact answer, points per box 1 | 2
2 | 3

4. A. Write an expression for **6 subtracted from x**: $x - 6$

A. exact answer, points per line 1 | 3

- B. Write an expression for **9 added to x**: $x + 9$
or equivalent

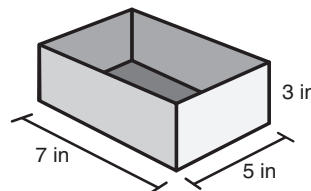
B. exact answer, points per line 1 | 3

5. Joseph has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

- A. What is the volume of the box? 105 in³.

- B. How many dice will fit inside Joseph's box?

840 dice.



A. correct digits 1 | 3
2 | 6
3 | 10

B. correct digits 1 | 7
2 | 15
3 | 23

6. Kylie reads 8 comic books in 2 weeks. At this rate, how long will it take her to read 4 comic books?

1 week(s).

correct digits 1 | 6

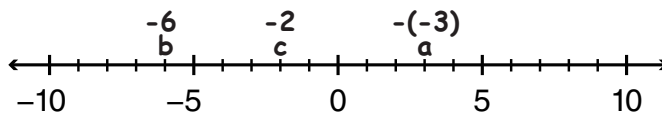
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7. Label the following numbers on the number line below:

a. $-(-3)$

b. -6

c. -2



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$30x + 3 < 100$	3	True
$37x - 8 < 100$	5	False

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

6	8
12	16
18	24
24	32
30	40

exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. Louise is plotting the location of book stores on a graph.

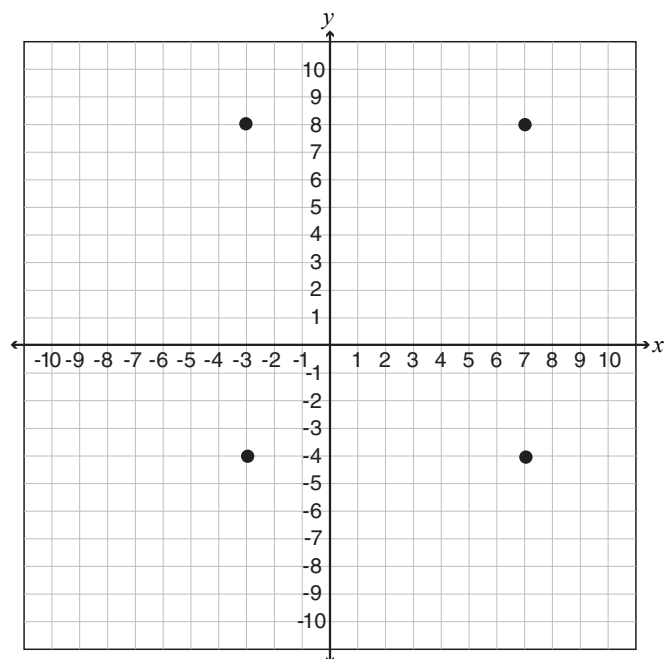
The book stores are located at

$(7, 8)$, $(7, -4)$, $(-3, -4)$.

A. If the vertices form a rectangle, find the location

of the last vertex: (-3, 8)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 (correct points plotted) 2 | 2
 3 | 3
 4 | 4

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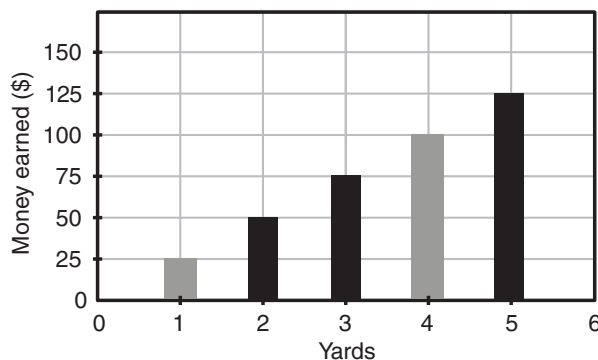
11. Emerson is paid for doing yard work. He earns \$25 per yard.

A. Fill in the table below to determine how much money Emerson earned.

Yards	Money Earned
1	\$25
2	\$50
3	\$75
4	\$100
5	\$125

B. Write an equation that illustrates the relationship between the number of yards (y) and the money earned (m): $m = 25y$

C. Make a bar graph for the amount of money earned:



A. exact answer, $\frac{1}{2}$ | **1**
points per box $\frac{2}{3}$ | **2**

B. exact answer, $\frac{1}{2}$ | **1**
points per line $\frac{2}{3}$ | **2**

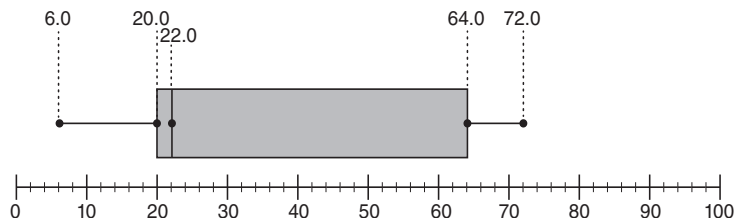
C. exact answer, $\frac{1}{2}$ | **1**
points per segment $\frac{2}{3}$ | **2**
(each bar graphed) $\frac{2}{3}$ | **2**

12. You bought 6 t-shirts for \$54. If all the t-shirts cost the same, what is the cost for each t-shirt?

\$ 9 per t-shirt.

correct digits $\frac{1}{2}$ | **4**

13. Below is the number of minutes people spent at the grocery store:



What is the range of the minutes people spent at the grocery store? 66

What is the median number of minutes people spent at the grocery store? 22

What is the maximum number of minutes people spent at the grocery store? 72

exact answer, $\frac{1}{2}$ | **2**
points per line $\frac{2}{3}$ | **4**

14. Diver A dove to a sea level depth of -69 feet. Diver B dove to -89 feet.

Which diver dove deeper? Diver B

Diver A was how many feet under water? 69 feet

exact answer, $\frac{1}{2}$ | **1**
points per line $\frac{2}{3}$ | **2**

15. $5^2 =$ 25

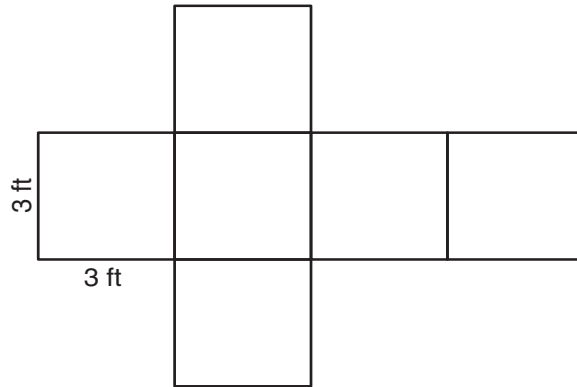
correct digits $\frac{1}{2}$ | **2**
 $\frac{2}{4}$

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16. Rick wants to figure out the surface area of the box.

What is the surface area of the box?

54 ft².
←



correct digits 1 | 3
2 | 7

17. Sage runs 3 miles in 18 minutes. If she runs at a constant speed, how long will it take her to run 7 miles?

42 minutes.
←

correct digits 1 | 4
2 | 8

18. What is the greatest common factor of 28 and 35? 7

exact answer,
points per line 1 | 8

19. Oliver scores 2 more than 7 times the points that Lynn scores.

Let L = the number of points that Lynn scores.

Write an equation using x that describes how many points Oliver scores. $X = 7L + 2$
or equivalent

exact answer,
points per line 1 | 5

20. Harry's house is 4 feet below sea level. Sonia's house is 9 feet above sea level. Write an inequality that shows the relationship between these two houses: $-4 < 9$

exact answer,
points per line 1 | 4

Scoring Direction

Right to Left
or

Left to Right

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Total: _____

1. In the garden, there were 63 flowers and 65 weeds. What is the ratio of flowers to weeds? 63 : 65
or equivalent

exact answer, points per line 1 | 2

2. Cassie likes to make paper airplanes. Each day she makes a certain number of paper airplanes. The following are the number of paper airplanes that Cassie made per day: **3, 8, 1, 2, 6**.

A. What is the mean number of paper airplanes that Cassie made? 4

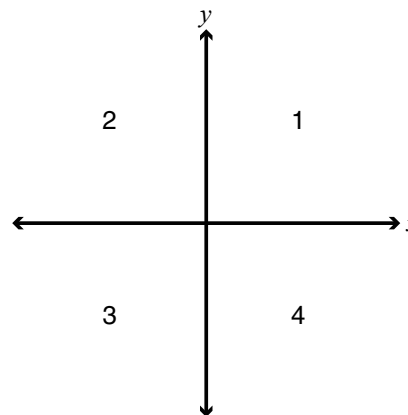
A. correct digits 1 | 11

B. What is the median number of paper airplanes that Cassie made? 3

B. exact answer, points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(-2, 8)	<u>2</u>
(7, 5)	<u>1</u>
(-5, -6)	<u>3</u>
(7, -9)	4



exact answer, points per box 1 | 2
2 | 3

4. A. Write an expression for **8 subtracted from x**: $x - 8$

A. exact answer, points per line 1 | 3

B. Write an expression for **3 added to x**: $x + 3$
or equivalent

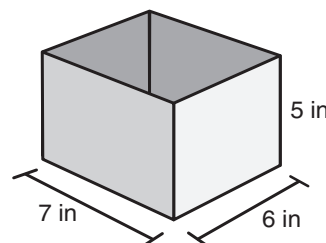
B. exact answer, points per line 1 | 3

5. Lisa has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 210 in³.

B. How many dice will fit inside Lisa's box?

1,680 dice.



A. correct digits 1 | 3
2 | 6
3 | 10

B. correct digits 1 | 8
2 | 16
3 | 24
4 | 33

6. Tony eats 6 apples in 3 weeks. At this rate, how long will it take him to eat 8 apples?

4 week(s).

correct digits 1 | 6

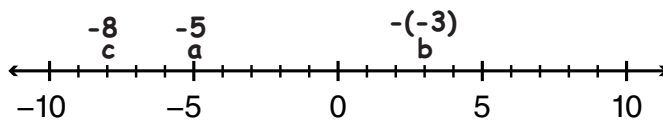
Acadience® Math / Concepts and Applications
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7. Label the following numbers on the number line below:

a. -5

b. $-(-3)$

c. -8



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$39x + 9 < 100$	2	True
$14x - 8 < 100$	4	True

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

9	6
18	12
27	18
36	24
45	30

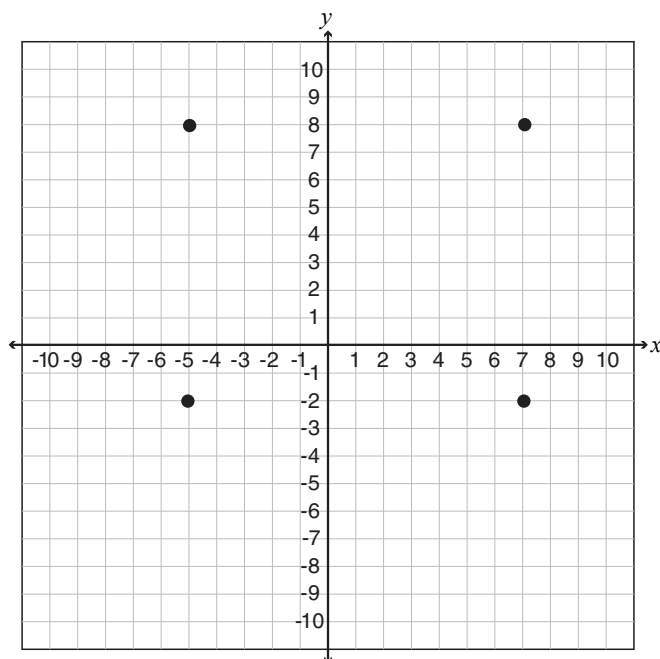
exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. Ruby is plotting the location of swimming pools on a graph.

The swimming pools are located at
 $(7, 8)$, $(7, -2)$, $(-5, -2)$.

A. If the vertices form a rectangle, find the location
 of the last vertex: (-5, 8)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 2 | 2
 3 | 3
 (correct points plotted) 4 | 4

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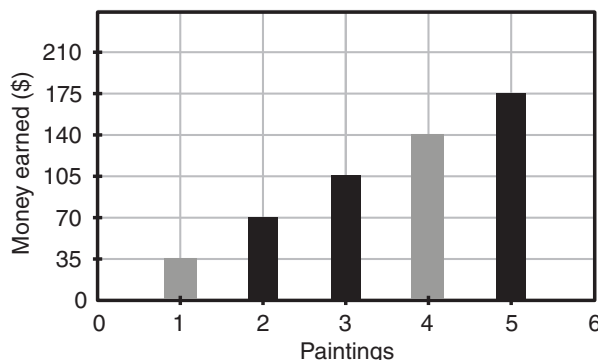
11. Ross sells paintings. He earns \$35 per painting.

A. Fill in the table below to determine how much money Ross earned.

Paintings	Money Earned
1	\$35
2	\$70
3	\$105
4	\$140
5	\$175

B. Write an equation that illustrates the relationship between the number of paintings (p) and the money earned (m): $m = 35p$

C. Make a bar graph for the amount of money earned:



A. exact answer, $\frac{1}{2}$ | $\frac{1}{2}$
 points per box $\frac{2}{3}$ | $\frac{2}{3}$

B. exact answer, $\frac{1}{2}$ | $\frac{1}{2}$
 points per line $\frac{2}{3}$ | $\frac{2}{3}$

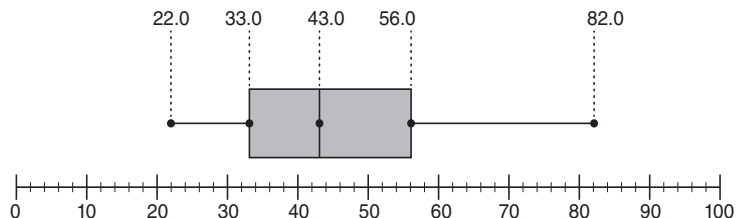
C. exact answer, $\frac{1}{2}$ | $\frac{1}{2}$
 points per segment $\frac{2}{3}$ | $\frac{2}{3}$
 (each bar graphed) $\frac{2}{3}$ | $\frac{2}{3}$

12. You bought 8 jars of jelly for \$40. If all the jars of jelly cost the same, what is the cost for each jar of jelly?

\$ 5 per jar of jelly.

correct digits $\frac{1}{2}$ | $\frac{1}{2}$

13. Below is the number of minutes farmers spent planting tomatoes:



What is the range of the minutes farmers spent planting tomatoes? 60

What is the median number of minutes farmers spent planting tomatoes? 43

What is the maximum number of minutes farmers spent planting tomatoes? 82

exact answer, $\frac{1}{2}$ | $\frac{1}{2}$
 points per line $\frac{2}{3}$ | $\frac{2}{3}$

14. Diver A dove to a sea level depth of -17 feet. Diver B dove to -93 feet.

Which diver dove deeper? Diver B

Diver A was how many feet under water? 17 feet

exact answer, $\frac{1}{2}$ | $\frac{1}{2}$
 points per line $\frac{2}{3}$ | $\frac{2}{3}$

15. $3^3 =$ 27

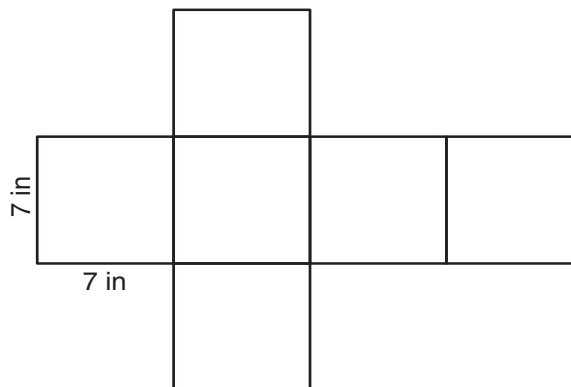
correct digits $\frac{1}{2}$ | $\frac{3}{7}$

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16. Paul wants to figure out the surface area of the box.

What is the surface area of the box?

294 in².



correct digits $\begin{array}{r|l} 1 & 3 \\ 2 & 7 \\ 3 & 10 \end{array}$

17. Tucker runs 2 miles in 14 minutes. If he runs at a constant speed, how long will it take him to run 5 miles?

35 minutes.

correct digits $\begin{array}{r|l} 1 & 4 \\ 2 & 8 \end{array}$

18. What is the greatest common factor of 24 and 40? 8

exact answer,
points per line $1 \mid 8$

19. Kim has 9 more than 5 times the marbles that Sam has.

Let S = the number of marbles that Sam has.

Write an equation using x that describes how many marbles Kim has. $X = 5S + 9$
or equivalent

exact answer,
points per line $1 \mid 5$

20. Martin's house is 7 feet below sea level. Sanjay's house is 3 feet above sea level. Write an inequality that shows the relationship between these two houses: $-7 < 3$

exact answer,
points per line $1 \mid 4$

Scoring Direction

Right to Left
or

Left to Right

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Total: _____

1. In the yard, there were 15 chickens and 22 chicks. What is the ratio of chickens to chicks? 15 : 22
or equivalent

exact answer,
points per line 1 | 2

2. Denzel likes to go hiking. Each day he hikes a certain number of miles. The following are the number of miles that Denzel hiked per day: **1, 3, 7, 3, 6.**

A. What is the mean number of miles that Denzel hiked? 4

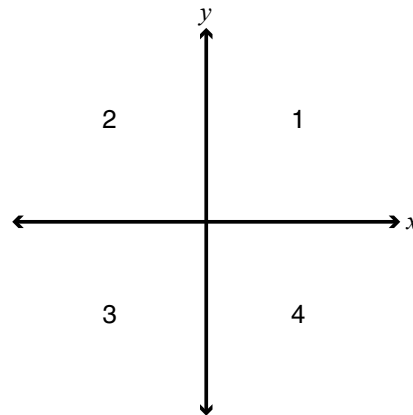
A. correct digits 1 | 11

B. What is the median number of miles that Denzel hiked? 3

B. exact answer,
points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(1, -7)	4
(-7, -2)	3
(8, 2)	1
(-3, 2)	2



exact answer, $\frac{1}{2}$ | 1
points per box 3 | 3

4. A. Write an expression for **7 subtracted from x**: $x - 7$

A. exact answer,
points per line 1 | 3

B. Write an expression for **2 added to x**: $x + 2$
or equivalent

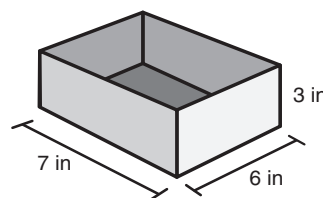
B. exact answer,
points per line 1 | 3

5. Nick has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 126 in³.

B. How many dice will fit inside Nick's box?

1,008 dice.



A. correct digits $\frac{1}{2}$ | 3
3 | 6
3 | 10

B. correct digits $\frac{1}{2}$ | 7
2 | 14
3 | 22
4 | 30

6. Meg writes 6 songs in 2 weeks. At this rate, how long will it take her to write 3 songs?

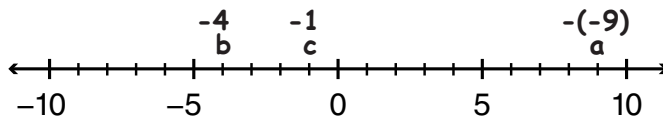
1 week(s).

correct digits 1 | 6

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7. Label the following numbers on the number line below:

- a. $-(-9)$
 b. -4
 c. -1



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$17x + 8 < 100$	5	True
$42x - 9 < 100$	3	False

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

5	4
10	8
15	12
20	16
25	20

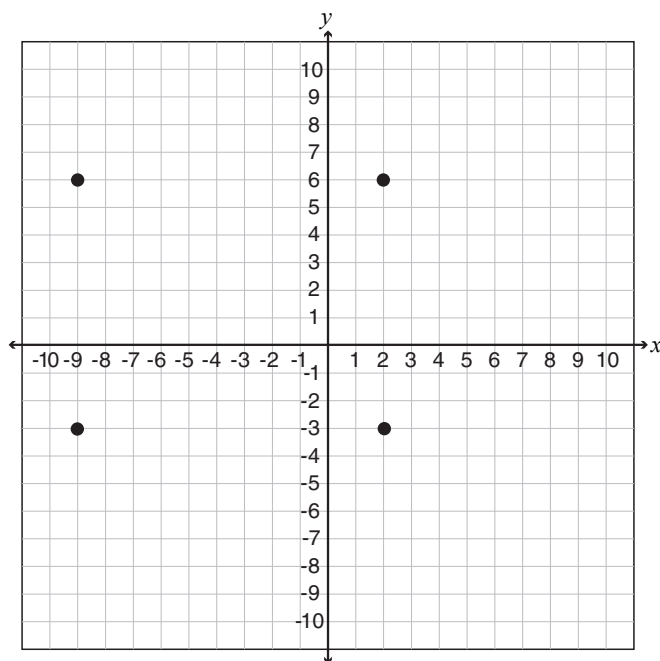
exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. Felix is plotting the location of submarines on a graph.

The submarines are located at
 $(2, 6)$, $(2, -3)$, $(-9, -3)$.

A. If the vertices form a rectangle, find the location
 of the last vertex: (-9, 6)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 (correct points plotted) 2 | 2
 3 | 3
 4 | 4

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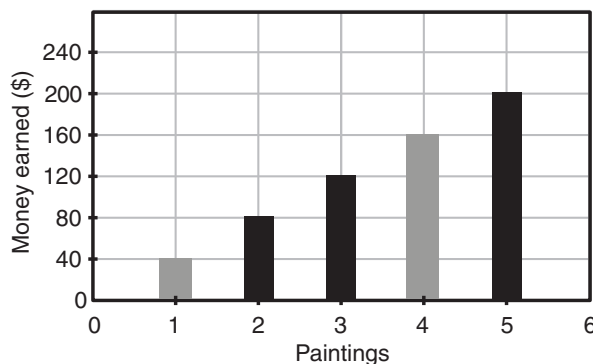
11. Rose earns money for painting art. She earns \$40 per painting.

A. Fill in the table below to determine how much money Rose earned.

Paintings	Money Earned
1	\$40
2	\$80
3	\$120
4	\$160
5	\$200

B. Write an equation that illustrates the relationship between the number of paintings (p) and the money earned (m): $m = 40p$

C. Make a bar graph for the amount of money earned:



A. exact answer,

1	1
2	2
3	3

B. exact answer, points per line

1	4
---	---

C. exact answer, points per segment (each bar graphed)

1	1
2	2
3	3

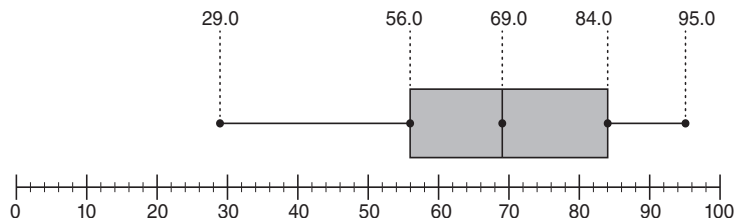
12. You bought 3 journals for \$27. If all the journals cost the same, what is the cost for each journal?

\$ 9 per journal.

correct digits

1	4
---	---

13. Below is the number of minutes kids spent running on the playground:



What is the range of the minutes kids spent running on the playground? 66

What is the median number of minutes kids spent running on the playground? 69

What is the maximum number of minutes kids spent running on the playground? 95

exact answer,

1	2
2	4
3	6

14. Diver A dove to a sea level depth of -65 feet. Diver B dove to -95 feet.

Which diver dove deeper? Diver B

Diver A was how many feet under water? 65 feet

exact answer,

1	1
2	2

15. $5^3 =$ 125

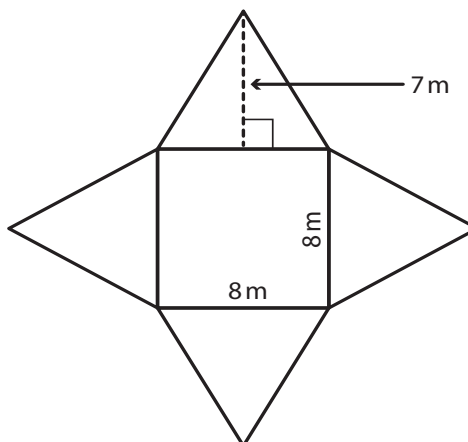
correct digits

1	3
2	6
3	10

Acadience® Math / Concepts and Applications
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16. Hope wants to figure out the surface area of the pyramid. What is the surface area of the pyramid?

176 m².



correct digits

1	8
2	16
3	25

17. Pablo bikes 5 miles in 45 minutes. If he bikes at a constant speed, how long will it take him to bike 7 miles?

63 minutes.

correct digits

1	4
2	8

18. What is the greatest common factor of 54 and 42? 6

exact answer,
points per line

1	8
---	---

19. Lucy eats 8 more than 9 times the peanuts that Mason eats.

Let M = the number of peanuts that Mason eats.

Write an equation using x that describes how many peanuts Lucy eats. $X = 9M + 8$
or equivalent

exact answer,
points per line

1	5
---	---

20. Matt's house is 6 feet below sea level. Mark's house is 9 feet above sea level. Write an inequality that shows the relationship between these two houses: $-6 < 9$

exact answer,
points per line

1	4
---	---

Scoring Direction

Right to Left
or

Left to Right

Acadience® Math / Concepts and Applications Level 6 / Progress Monitoring 12 / Teacher Key

Total: _____

1. At the animal shelter, there were 53 kittens and 41 puppies. What is the ratio of kittens to puppies? 53 : 41
or equivalent

exact answer, points per line 1 | 2

2. Beth fixes bikes. Each day she fixes a certain number of bikes. The following are the number of bikes that Beth fixed per day: **4, 9, 2, 3, 7.**

A. What is the mean number of bikes that Beth fixed? 5

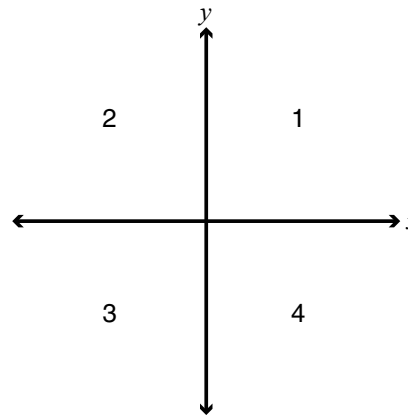
A. correct digits 1 | 11

B. What is the median number of bikes that Beth fixed? 4

B. exact answer, points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(1, -7)	4
(-9, 8)	2
(5, 1)	1
(-6, -2)	3



exact answer, points per box 1 | 2
2 | 3
3 | 3

4. A. Write an expression for **9 subtracted from x**: $x - 9$

A. exact answer, points per line 1 | 3

B. Write an expression for **7 added to x**: $x + 7$
or equivalent

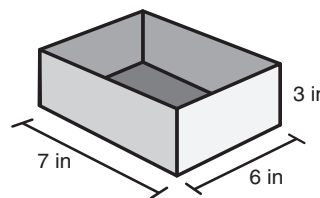
B. exact answer, points per line 1 | 3

5. Wu has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 126 in³.

B. How many dice will fit inside Wu's box?

1,008 dice.



A. correct digits 1 | 3
2 | 6
3 | 10

B. correct digits 1 | 7
2 | 14
3 | 22
4 | 30

6. The chicken lays 6 eggs in 2 weeks. At this rate, how long will it take it to lay 9 eggs?

3 week(s).

correct digits 1 | 6

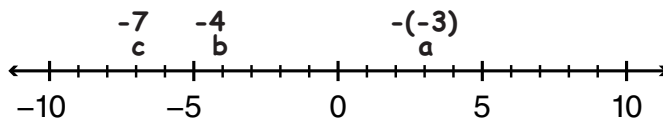
Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 12 / Teacher Key

7. Label the following numbers on the number line below:

a. $-(-3)$

b. -4

c. -7



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$23x + 7 < 100$	8	False
$29x - 3 < 100$	6	False

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

9	8
18	16
27	24
36	32
45	40

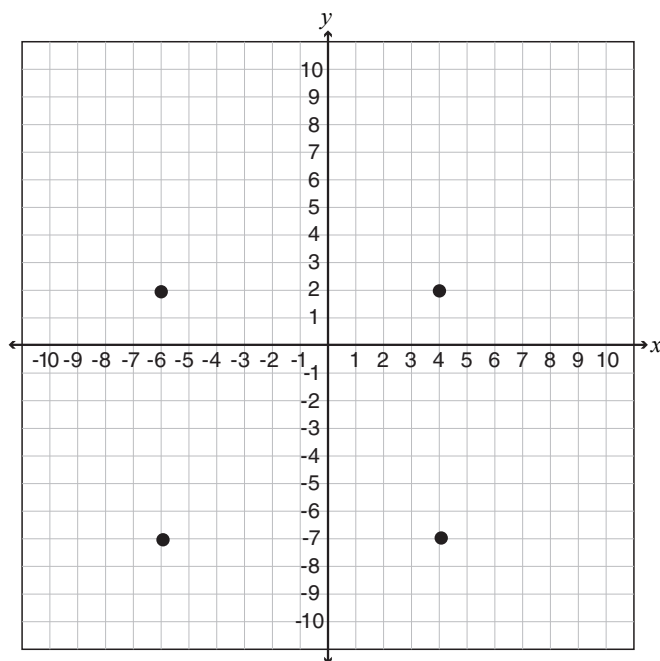
exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. Jay is plotting the location of barns on a graph.

The barns are located at
 $(4, 2)$, $(4, -7)$, $(-6, -7)$.

A. If the vertices form a rectangle, find the location
 of the last vertex: (-6, 2)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 (correct points plotted) 2 | 2
 3 | 3
 4 | 4

**Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 12 / Teacher Key**

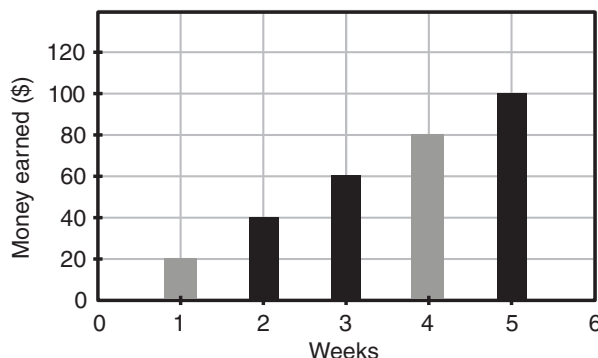
11. Ben helps his mom with chores every week. He earns \$20 per week.

A. Fill in the table below to determine how much money Ben earned.

Weeks	Money Earned
1	\$20
2	\$40
3	\$60
4	\$80
5	\$100

B. Write an equation that illustrates the relationship between the number of weeks (w) and the money earned (m): $m = 20w$

C. Make a bar graph for the amount of money earned:



A. exact answer, $\frac{1}{2}$ | $\frac{1}{2}$
points per box $\frac{2}{3}$ | $\frac{2}{3}$

B. exact answer, 1 | 4
points per line

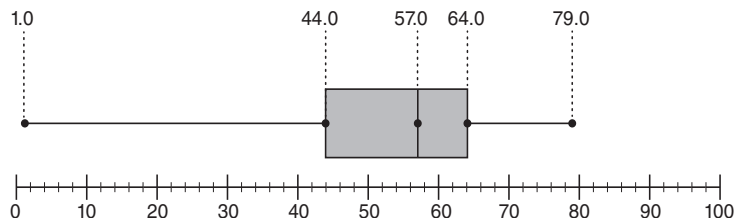
C. exact answer, $\frac{1}{2}$ | $\frac{1}{2}$
points per segment $\frac{2}{3}$ | $\frac{2}{3}$
(each bar graphed)

12. You bought 4 candles for \$12. If all the candles cost the same, what is the cost for each candle?

\$ 3 per candle.

correct digits 1 | 4

13. Below is the number of minutes a group of dogs spent playing at the dog park:



What is the range of the minutes the dogs spent playing at the dog park? 78

What is the median number of minutes the dogs spent playing at the dog park? 57

What is the maximum number of minutes the dogs spent playing at the dog park? 79

exact answer, $\frac{1}{2}$ | $\frac{2}{4}$
points per line $\frac{2}{3}$ | $\frac{6}{6}$

14. Diver A dove to a sea level depth of -80 feet. Diver B dove to -53 feet.

Which diver dove deeper? Diver A

Diver A was how many feet under water? 80 feet

exact answer, 1 | 1
points per line 2 | 2

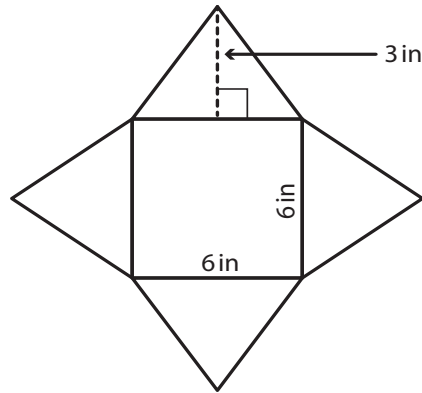
15. $4^2 =$ 16

correct digits 1 | 2
 2 | 4

**Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 12 / Teacher Key**

16. Luke wants to figure out the surface area of the pyramid. What is the surface area of the pyramid?

72 in².



correct digits $\begin{array}{r} 1 \\ 2 \end{array} \mid \begin{array}{r} 10 \\ 20 \end{array}$

17. Chloe bikes 5 miles in 35 minutes. If she bikes at a constant speed, how long will it take her to bike 4 miles?

28 minutes.

correct digits $\begin{array}{r} 1 \\ 2 \end{array} \mid \begin{array}{r} 4 \\ 8 \end{array}$

18. What is the greatest common factor of 27 and 18? 9

exact answer,
points per line $1 \mid 8$

19. Henry has 2 more than 5 times the hats that Chen has.

Let C = the number of hats that Chen has.

Write an equation using x that describes how many hats Henry has. $X = 5C + 2$
or equivalent

exact answer,
points per line $1 \mid 5$

20. Doug's house is 9 feet below sea level. Juan's house is 4 feet above sea level. Write an inequality that shows the relationship between these two houses: $-9 < 4$

exact answer,
points per line $1 \mid 4$

Scoring Direction

Right to Left
or

Left to Right

Acadience® Math / Concepts and Applications Level 6 / Progress Monitoring 13 / Teacher Key

Total: _____

1. In the sea, there were 95 whales and 76 sharks. What is the ratio of whales to sharks? 95 : 76
or equivalent

exact answer,
points per line 1 | 2

2. Ken has a garden. Each day he picks a certain number of peppers. The following are the number of peppers that Ken picked per day: **9, 1, 5, 3, 2.**

A. What is the mean number of peppers that Ken picked? 4

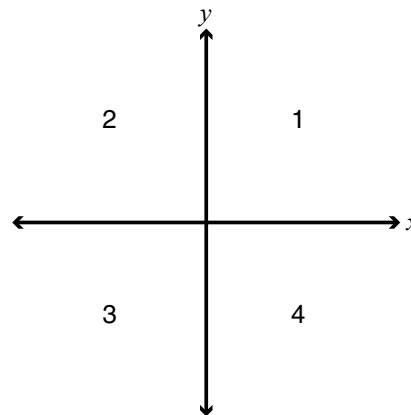
A. correct digits 1 | 11

B. What is the median number of peppers that Ken picked? 3

B. exact answer,
points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(2, 5)	1
(5, -9)	4
(-1, 2)	2
(-3, -7)	3



exact answer, 1 | 1
points per box 2 | 2
3 | 3

4. A. Write an expression for **3 subtracted from x** : $x - 3$

A. exact answer,
points per line 1 | 3

B. Write an expression for **7 added to x** : $x + 7$
or equivalent

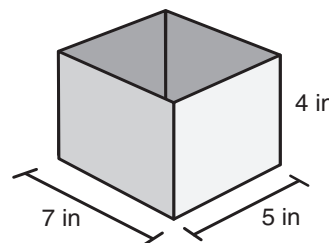
B. exact answer,
points per line 1 | 3

5. Scarlett has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 140 in³.

B. How many dice will fit inside Scarlett's box?

1,120 dice.



A. correct digits 1 | 3
2 | 6
3 | 10

B. correct digits 1 | 7
2 | 13
3 | 19
4 | 26

6. Jackson cleans his room 4 times every 2 weeks. At this rate, how long will it take him to clean his room 6 times?

3 week(s).

correct digits 1 | 6

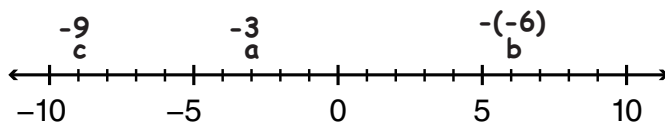
Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 13 / Teacher Key

7. Label the following numbers on the number line below:

a. -3

b. $-(-6)$

c. -9



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$44x + 9 < 100$	3	False
$13x - 5 < 100$	2	True

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

6	8
12	16
18	24
24	32
30	40

exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

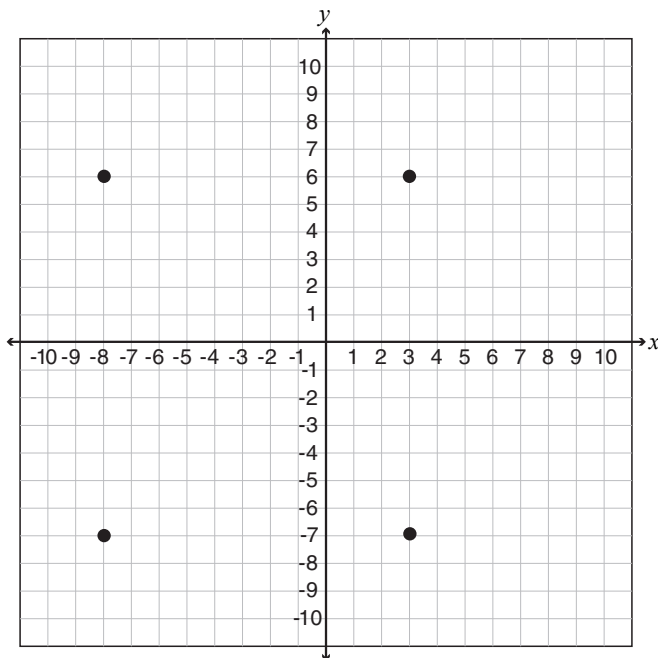
10. Jamal is plotting the location of tree houses on a graph.

The tree houses are located at

$(3, 6)$, $(3, -7)$, $(-8, -7)$.

A. If the vertices form a rectangle, find the location of the last vertex: (-8, 6)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 (correct points plotted) 2 | 2
 3 | 3
 4 | 4

Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 13 / Teacher Key

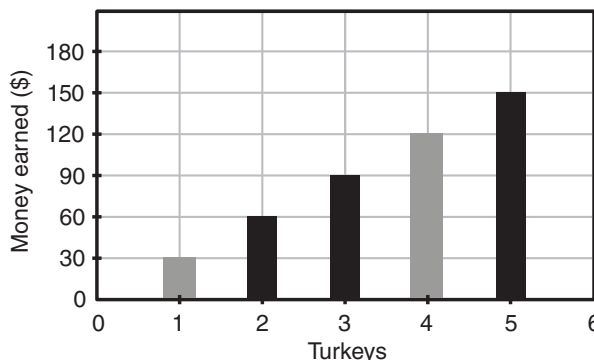
11. Sophie sells turkeys. She earns \$30 per turkey.

A. Fill in the table below to determine how much money Sophie earned.

Turkeys	Money Earned
1	\$30
2	\$60
3	\$90
4	\$120
5	\$150

B. Write an equation that illustrates the relationship between the number of turkeys (t) and the money earned (m): $m = 30t$

C. Make a bar graph for the amount of money earned:



A. exact answer, $\frac{1}{2}$ | **1**
 points per box $\frac{2}{3}$ | **2**

B. exact answer, points per line 1 | **4**

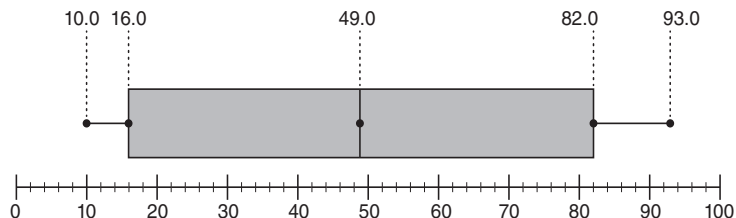
C. exact answer, points per segment $\frac{1}{2}$ | **1**
 (each bar graphed) $\frac{2}{3}$ | **2**

12. You bought 5 pies for \$45. If all the pies cost the same, what is the cost for each pie?

\$ 9 per pie.

correct digits 1 | **4**

13. Below is the number of minutes a group of children spent at the fair:



What is the range of the minutes the children spent at the fair? 83

What is the median number of minutes the children spent at the fair? 49

What is the maximum number of minutes the children spent at the fair? 93

exact answer, $\frac{1}{2}$ | **2**
 points per line $\frac{2}{3}$ | **4**

14. Diver A dove to a sea level depth of -17 feet. Diver B dove to -58 feet.

Which diver dove deeper? Diver B

Diver A was how many feet under water? 17 feet

exact answer, $\frac{1}{2}$ | **1**
 points per line $\frac{2}{2}$ | **2**

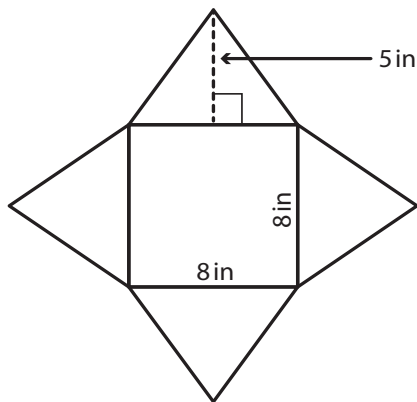
15. $3^3 =$ 27

correct digits $\frac{1}{2}$ | **3**
 $\frac{3}{7}$

Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 13 / Teacher Key

16. Seth wants to figure out the surface area of the pyramid. What is the surface area of the pyramid?

144 in².



correct digits

1	7
2	15
3	23

17. Luke runs 2 miles in 16 minutes. If he runs at a constant speed, how long will it take him to run 8 miles?

64 minutes.

correct digits

1	4
2	8

18. What is the greatest common factor of 24 and 54? 6

exact answer,
points per line

1	8
---	---

19. Isabella has 5 more than 9 times the cows that Will has.

Let W = the number of cows that Will has.

Write an equation using x that describes how many cows Isabella has. $X = 9W + 5$
or equivalent

exact answer,
points per line

1	5
---	---

20. Clara's house is 3 feet below sea level. José's house is 7 feet above sea level. Write an inequality that shows the relationship between these two houses: $-3 < 7$

exact answer,
points per line

1	4
---	---

Scoring Direction

Right to Left
or

Left to Right

Acadience® Math / Concepts and Applications Level 6 / Progress Monitoring 14 / Teacher Key

Total: _____

1. On the farm, there were 11 horses and 24 cows. What is the ratio of horses to cows? 11 : 24
or equivalent

exact answer, points per line 1 | 2

2. Ellie makes kites. Each day she makes a certain number of kites. The following are the number of kites that Ellie made per day: **1, 8, 3, 4, 9**.

A. What is the mean number of kites that Ellie made? 5

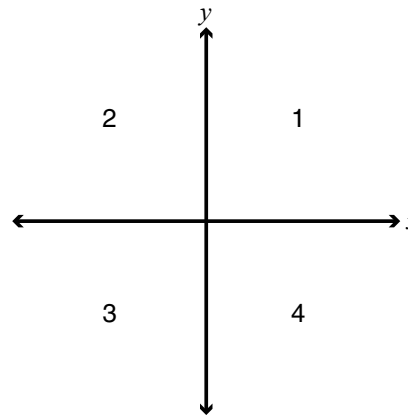
A. correct digits 1 | 11

B. What is the median number of kites that Ellie made? 4

B. exact answer, points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(8, 6)	1
(-9, -6)	3
(-1, 9)	2
(8, -3)	4



exact answer, points per box 1 | 2
2 | 3

4. A. Write an expression for **5 subtracted from x** : $x - 5$

A. exact answer, points per line 1 | 3

B. Write an expression for **7 added to x** : $x + 7$
or equivalent

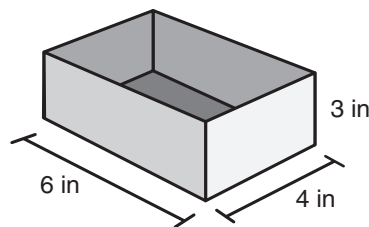
B. exact answer, points per line 1 | 3

5. Jill has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 72 in³.

B. How many dice will fit inside Jill's box?

576 dice.



A. correct digits 1 | 4
2 | 9

B. correct digits 1 | 7
2 | 14
3 | 21

6. Abby feeds her horse 8 apples in 4 weeks. At this rate, how long will it take her to feed it 6 apples?

3 week(s).

correct digits 1 | 6

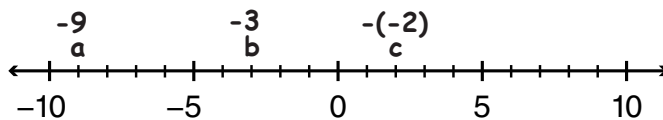
Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 14 / Teacher Key

7. Label the following numbers on the number line below:

a. -9

b. -3

c. $-(-2)$



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$42x + 7 < 100$	4	False
$32x - 5 < 100$	7	False

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

6	7
12	14
18	21
24	28
30	35

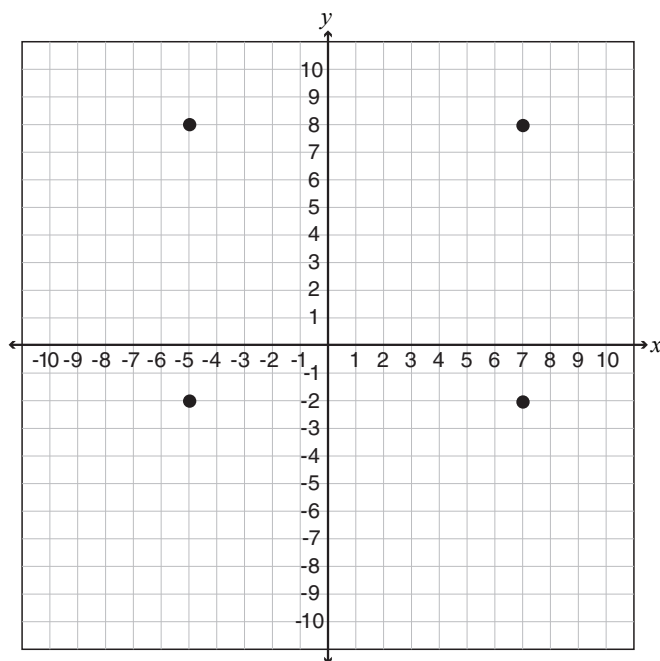
exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. Yuki is plotting the location of libraries on a graph.

The libraries are located at
 $(7, 8)$, $(7, -2)$, $(-5, -2)$.

A. If the vertices form a rectangle, find the location
 of the last vertex: (-5, 8)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 (correct points plotted) 2 | 2
 3 | 3
 4 | 4

Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 14 / Teacher Key

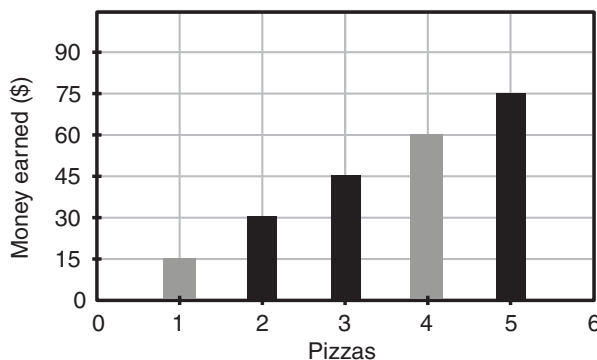
11. Gabe sells pizzas. He earns \$15 per pizza.

A. Fill in the table below to determine how much money Gabe earned.

Pizzas	Money Earned
1	\$15
2	\$30
3	\$45
4	\$60
5	\$75

B. Write an equation that illustrates the relationship between the number of pizzas sold (p) and the money earned (m): $m = 15p$

C. Make a bar graph for the amount of money earned:



A. exact answer, $\frac{1}{2}$ | **1**
 points per box $\frac{2}{3}$ | **2**
3

B. exact answer, points per line 1 | **4**

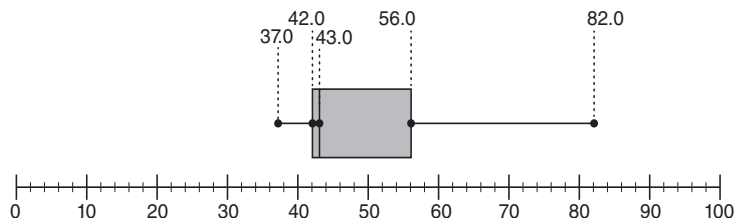
C. exact answer, points per segment $\frac{1}{2}$ | **1**
 (each bar graphed) $\frac{2}{3}$ | **2**
3

12. You bought 8 chickens for \$48. If all the chickens cost the same, what is the cost for each chicken?

\$ **6** per chicken.

correct digits 1 | **4**

13. Below is the number of minutes some cats spent playing in the yard:



What is the range of the minutes the cats spent playing in the yard? **45**

What is the median number of minutes the cats spent playing in the yard? **43**

What is the maximum number of minutes the cats spent playing in the yard? **82**

exact answer, $\frac{1}{2}$ | **2**
 points per line $\frac{2}{3}$ | **4**
6

14. Diver A dove to a sea level depth of -26 feet. Diver B dove to -71 feet.

Which diver dove deeper? **Diver B**

Diver A was how many feet under water? **26** feet

exact answer, $\frac{1}{2}$ | **1**
 points per line $\frac{2}{3}$ | **2**

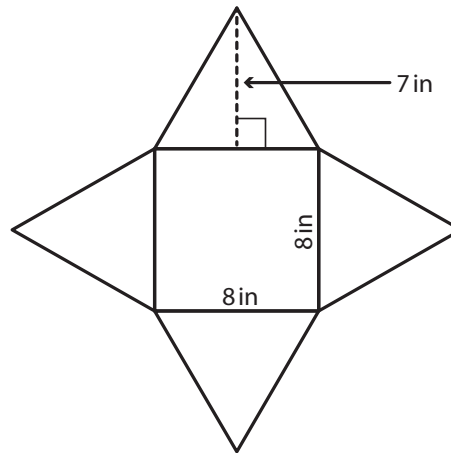
15. $2^3 =$ **8**

correct digits 1 | **6**

**Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 14 / Teacher Key**

16. Ed wants to figure out the surface area of the pyramid. What is the surface area of the pyramid?

176 in².



correct digits

1	8
2	16
3	25

17. Anna runs 3 miles in 21 minutes. If she runs at a constant speed, how long will it take her to run 7 miles?

49 minutes.

correct digits

1	4
2	8

18. What is the greatest common factor of 56 and 24? 8

exact answer,
points per line

1	8
---	---

19. Willa has 5 more than 3 times the tea cups that Hunter has.

Let H = the number of tea cups that Hunter has.

Write an equation using x that describes how many tea cups Willa has. $X = 3H + 5$
or equivalent

exact answer,
points per line

1	5
---	---

20. Emily's house is 5 feet below sea level. Alex's house is 8 feet above sea level. Write an inequality that shows the relationship between these two houses: $-5 < 8$

exact answer,
points per line

1	4
---	---

Scoring Direction

Right to Left
or

Left to Right

Acadience® Math / Concepts and Applications Level 6 / Progress Monitoring 15 / Teacher Key

Total: _____

1. In the forest, there were 11 bears and 24 foxes. What is the ratio of bears to foxes? 11 : 24
or equivalent

exact answer,
points per line 1 | 2

2. Josie writes articles. Each week she writes a certain number of articles. The following are the number of articles that Josie wrote each week: **9, 8, 1, 4, 3.**

A. What is the mean number of articles that Josie wrote? 5

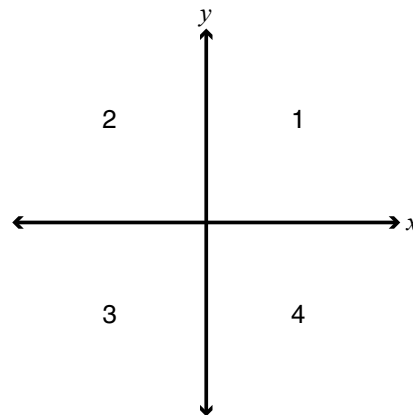
A. correct digits 1 | 11

B. What is the median number of articles that Josie wrote? 4

B. exact answer,
points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(-5, 2)	2
(8, 2)	1
(5, -1)	4
(-9, -3)	3



exact answer, $\frac{1}{2}$ | 1
points per box 3 | 3

4. A. Write an expression for **5 subtracted from x**: $x - 5$

A. exact answer,
points per line 1 | 3

B. Write an expression for **4 added to x**: $x + 4$
or equivalent

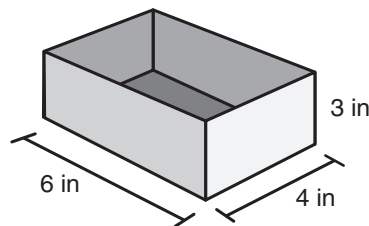
B. exact answer,
points per line 1 | 3

5. Evan has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 72 in³.

B. How many dice will fit inside Evan's box?

576 dice.



A. correct digits $\frac{1}{2}$ | 4
9

B. correct digits $\frac{1}{2}$ | 7
3 | 14
21

6. Li feeds her cat 9 treats in 3 weeks. At this rate, how long will it take her to feed it 6 treats?

2 week(s).

correct digits 1 | 6

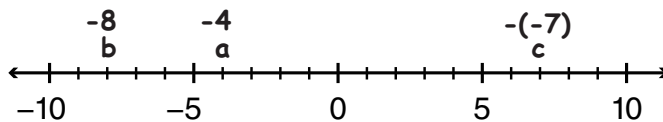
Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 15 / Teacher Key

7. Label the following numbers on the number line below:

a. -4

b. -8

c. $-(-7)$



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$23x + 6 < 100$	4	True
$30x - 7 < 100$	9	False

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

6	3
12	6
18	9
24	12
30	15

exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

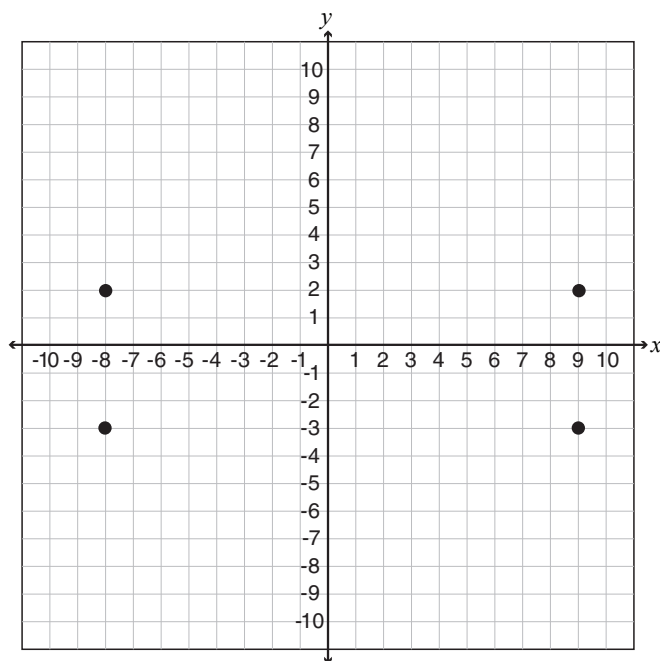
10. Kai is plotting the location of houses on a graph.

The houses are located at

$(9, 2)$, $(9, -3)$, $(-8, -3)$.

A. If the vertices form a rectangle, find the location of the last vertex: (-8, 2)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 (correct points plotted) 2 | 2
 3 | 3
 4 | 4

**Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 15 / Teacher Key**

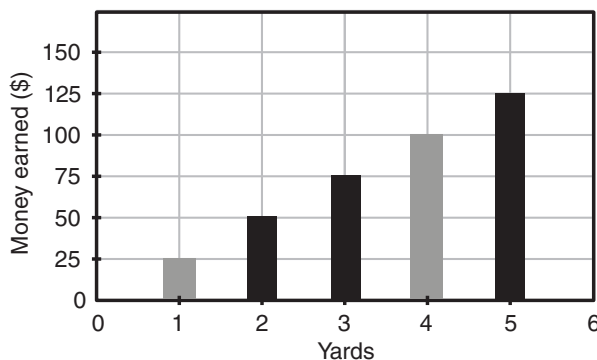
11. Emma does yard work. She earns \$25 per yard.

A. Fill in the table below to determine how much money Emma earned.

Yards	Money Earned
1	\$25
2	\$50
3	\$75
4	\$100
5	\$125

B. Write an equation that illustrates the relationship between the number of yards (y) and the money earned (m): $m = 25y$

C. Make a bar graph for the amount of money earned:



A. exact answer, $\frac{1}{2}$ | **1**
points per box $\frac{2}{3}$ | **2**
 $\frac{3}{3}$ | **3**

B. exact answer, points per line 1 | **4**

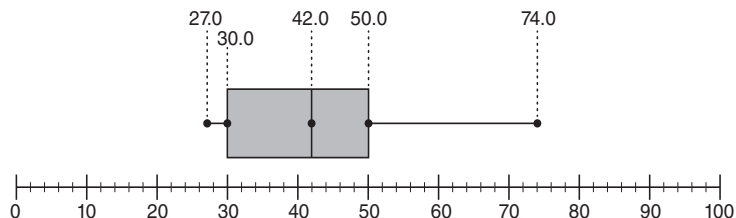
C. exact answer, points per segment $\frac{1}{2}$ | **1**
 $\frac{2}{3}$ | **2**
each bar graphed $\frac{3}{3}$ | **3**

12. You bought 4 scarves for \$36. If all the scarves cost the same, what is the cost for each scarf?

\$ **9** per scarf.

correct digits 1 | **4**

13. Below is the number of minutes people on the track team spent running:



What is the range of the minutes people on the track team spent running? **47**

What is the median number of minutes people on the track team spent running? **42**

What is the maximum number of minutes people on the track team spent running? **74**

exact answer, $\frac{1}{2}$ | **2**
points per line $\frac{2}{3}$ | **4**
 $\frac{3}{3}$ | **6**

14. Diver A dove to a sea level depth of -17 feet. Diver B dove to -25 feet.

Which diver dove deeper? **Diver B**

Diver A was how many feet under water? **17** feet

exact answer, $\frac{1}{2}$ | **1**
points per line $\frac{2}{2}$ | **2**

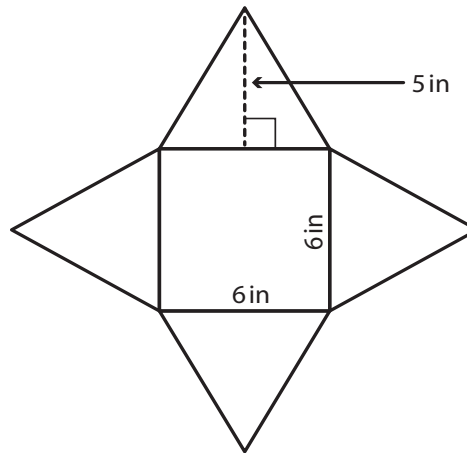
15. $5^3 =$ **125**

correct digits $\frac{1}{2}$ | **3**
 $\frac{2}{3}$ | **6**
 $\frac{3}{3}$ | **10**

Acadience® Math / Concepts and Applications
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16. Meg wants to figure out the surface area of a pyramid. What is the surface area of the pyramid?

96 in².



correct digits $\begin{array}{r} 1 \\ 2 \end{array} \bigg| \begin{array}{r} 11 \\ 22 \end{array}$

17. Dusty bikes 8 miles in 72 minutes. If he bikes at a constant speed, how long will it take him to bike 3 miles?

27 minutes.

correct digits $\begin{array}{r} 1 \\ 2 \end{array} \bigg| \begin{array}{r} 4 \\ 8 \end{array}$

18. What is the greatest common factor of 21 and 35? 7

exact answer,
points per line $1 \bigg| 8$

19. Santos has read 8 more than 9 times the books that Ruby has.

Let R = the number of books Ruby has read.

Write an equation using x that describes how many books Santos has read. $X = 9R + 8$
or equivalent

exact answer,
points per line $1 \bigg| 5$

20. Alice's house is 2 feet below sea level. Nora's house is 7 feet above sea level. Write an inequality that shows the relationship between these two houses: $-2 < 7$

exact answer,
points per line $1 \bigg| 4$

Scoring Direction

Right to Left
or

Left to Right

Acadience® Math / Concepts and Applications Level 6 / Progress Monitoring 16 / Teacher Key

Total: _____

1. At the gift shop, there were 11 candles and 24 books. What is the ratio of candles to books? 11 : 24
or equivalent

exact answer,
points per line 1 | 2

2. Cali played ping pong. Each day she wins a certain number of games. The following are the number of games that Cali won per day: **9, 1, 7, 2, 6.**

A. What is the mean number of games that Cali won? 5

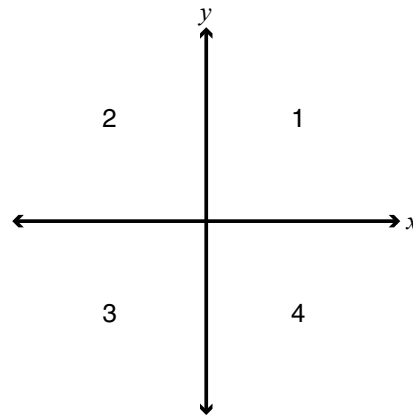
A. correct digits 1 | 11

B. What is the median number of games that Cali won? 6

B. exact answer,
points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(-1, -2)	<u>3</u>
(3, -8)	4
(4, 1)	<u>1</u>
(-3, 1)	<u>2</u>



exact answer, 1 | 1
points per box 2 | 2
3 | 3

4. A. Write an expression for **2 subtracted from x** : $x - 2$

A. exact answer,
points per line 1 | 3

B. Write an expression for **3 added to x** : $x + 3$
or equivalent

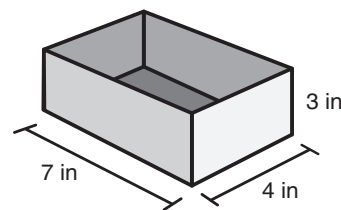
B. exact answer,
points per line 1 | 3

5. Asher has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 84 in³.

B. How many dice will fit inside Asher's box?

672 dice.



A. correct digits 1 | 4
2 | 9

B. correct digits 1 | 7
2 | 14
3 | 21

6. Anna feeds her horse 4 carrots every 2 weeks. At this rate, how long will it take her to feed it 8 carrots?

4 week(s).

correct digits 1 | 6

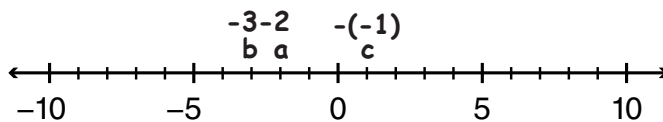
Acadience® Math / Concepts and Applications
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7. Label the following numbers on the number line below:

a. -2

b. -3

c. $-(-1)$



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$36x + 3 < 100$	4	False
$39x - 4 < 100$	6	False

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

3	4
6	8
9	12
12	16
15	20

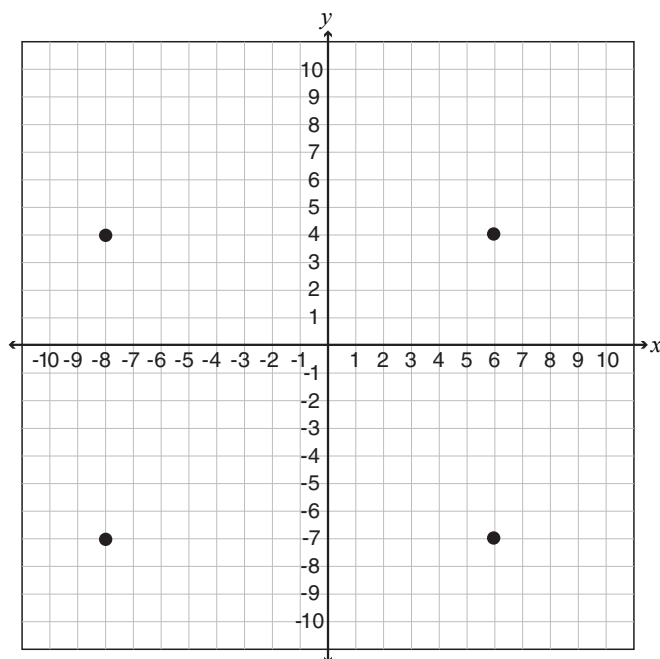
exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. Ted is plotting the location of trees on a graph.

The trees are located at
 $(6, 4)$, $(6, -7)$, $(-8, -7)$.

A. If the vertices form a rectangle, find the location
 of the last vertex: (-8, 4)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 (correct points plotted) 2 | 2
 3 | 3
 4 | 4

**Acadience® Math / Concepts and Applications
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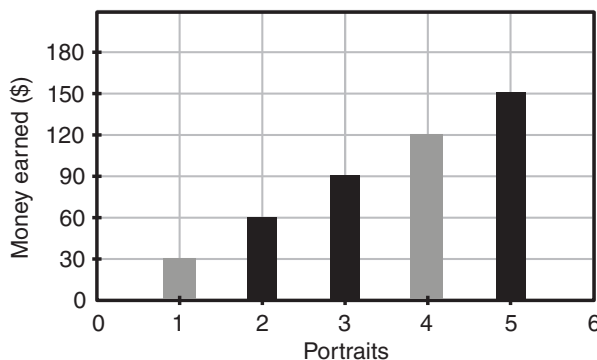
11. Scarlett sells portraits she has painted. She earns \$30 per portrait.

A. Fill in the table below to determine how much money Scarlett earned.

Portraits	Money Earned
1	\$30
2	\$60
3	\$90
4	\$120
5	\$150

B. Write an equation that illustrates the relationship between the number of portraits (p) and the money earned (m): $m = 30p$

C. Make a bar graph for the amount of money earned:



A. exact answer, $\frac{1}{2}$ | **1**
points per box $\frac{2}{3}$ | **2**
 $\frac{3}{3}$ | **3**

B. exact answer, $\frac{1}{2}$ | **1**
points per line $\frac{2}{3}$ | **2**
 $\frac{3}{3}$ | **3**

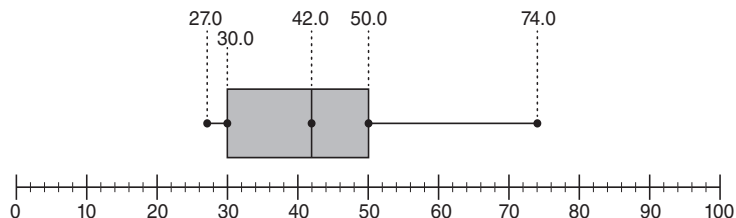
C. exact answer, $\frac{1}{2}$ | **1**
points per segment $\frac{2}{3}$ | **2**
(each bar graphed) $\frac{3}{3}$ | **3**

12. You bought 9 board games for \$72. If all the board games cost the same, what is the cost for each board game?

\$ **8** per board game.

correct digits $\frac{1}{2}$ | **1**
 $\frac{3}{3}$ | **4**

13. Below is the number of minutes some people spent at a museum:



What is the range of the minutes people spent at the museum? **47**

What is the median number of minutes people spent at the museum? **42**

What is the maximum number of minutes people spent at the museum? **74**

exact answer, $\frac{1}{2}$ | **2**
points per line $\frac{2}{3}$ | **4**
 $\frac{3}{3}$ | **6**

14. Diver A dove to a sea level depth of -39 feet. Diver B dove to -86 feet.

Which diver dove deeper? **Diver B**

Diver A was how many feet under water? **39** feet

exact answer, $\frac{1}{2}$ | **1**
points per line $\frac{2}{3}$ | **2**

15. $5^2 =$ **25**

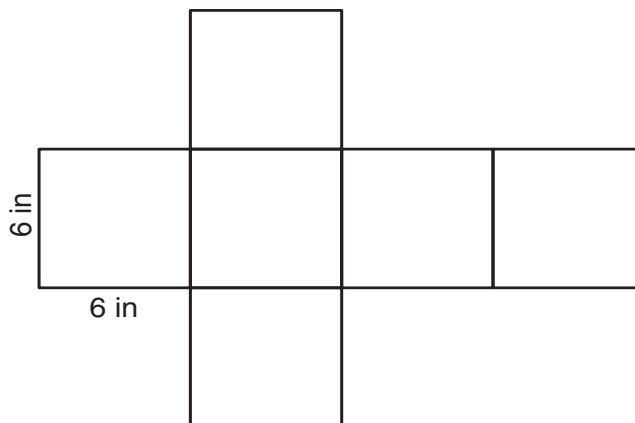
correct digits $\frac{1}{2}$ | **2**
 $\frac{3}{3}$ | **4**

**Acadience® Math / Concepts and Applications
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16. Clark wants to figure out the surface area of a box.

What is the surface area of the box?

216 in².



correct digits $\begin{array}{r|l} 1 & 3 \\ 2 & 7 \\ 3 & 10 \end{array}$

17. Johanna runs 3 miles in 24 minutes. If she runs at a constant speed, how long will it take her to run 9 miles?

72 minutes.

correct digits $\begin{array}{r|l} 1 & 4 \\ 2 & 8 \end{array}$

18. What is the greatest common factor of 18 and 24? 6

exact answer,
points per line $1 \mid 8$

19. Lee has 2 more than 5 times the hats that Elsa has.

Let E = the number of hats that Elsa has.

Write an equation using x that describes how many hats Lee has. $X = 5E + 2$
or equivalent

exact answer,
points per line $1 \mid 5$

20. Ray's house is 4 feet below sea level. Sarah's house is 6 feet above sea level. Write an inequality that shows the relationship between these two houses: $-4 < 6$

exact answer,
points per line $1 \mid 4$

Scoring Direction

Right to Left
or

Left to Right

Acadience® Math / Concepts and Applications Level 6 / Progress Monitoring 17 / Teacher Key

Total: _____

1. At the store, there were 11 apples and 24 pears. What is the ratio of apples to pears? 11 : 24
or equivalent

exact answer,
points per line 1 | 2

2. Charlotte fixes cars. Each day she fixes a certain number of cars. The following are the number of cars that Charlotte fixed per day: **6, 1, 3, 8, 7**.

A. What is the mean number of cars that Charlotte fixed? 5

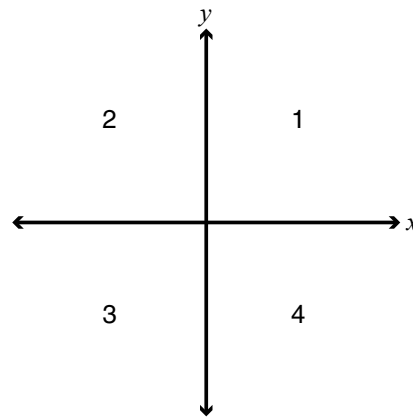
A. correct digits 1 | 11

B. What is the median number of cars that Charlotte fixed? 6

B. exact answer,
points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(-6, -1)	3
(9, 6)	1
(1, -9)	4
(-3, 9)	2



exact answer, $\frac{1}{2}$ | **1**
points per box 3 | **2**
3 | **3**

4. A. Write an expression for **5 subtracted from x** : $x - 5$

A. exact answer,
points per line 1 | 3

B. Write an expression for **7 added to x** : $x + 7$
or equivalent

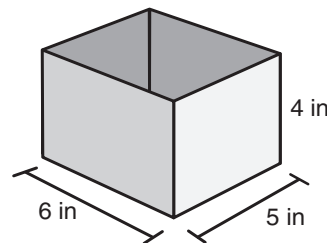
B. exact answer,
points per line 1 | 3

5. Mario has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 120 in³.

B. How many dice will fit inside Mario's box?

960 dice.



A. correct digits $\frac{1}{2}$ | **3**
3 | **6**
3 | **10**

B. correct digits $\frac{1}{2}$ | **7**
2 | **15**
3 | **23**

6. Maya feeds her dog 6 treats in 2 weeks. At this rate, how long will it take her to feed it 9 treats?

3 week(s).

correct digits 1 | 6

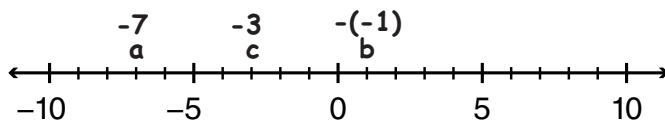
Acadience® Math / Concepts and Applications
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7. Label the following numbers on the number line below:

a. -7

b. $-(-1)$

c. -3



exact answer, 1
 points per segment 2
 (each labeled number) 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$41x + 3 < 100$	7	False
$18x - 9 < 100$	4	True

exact answer, 1
 points per box 2

9. Complete the ratio table:

6	8
12	16
18	24
24	32
30	40

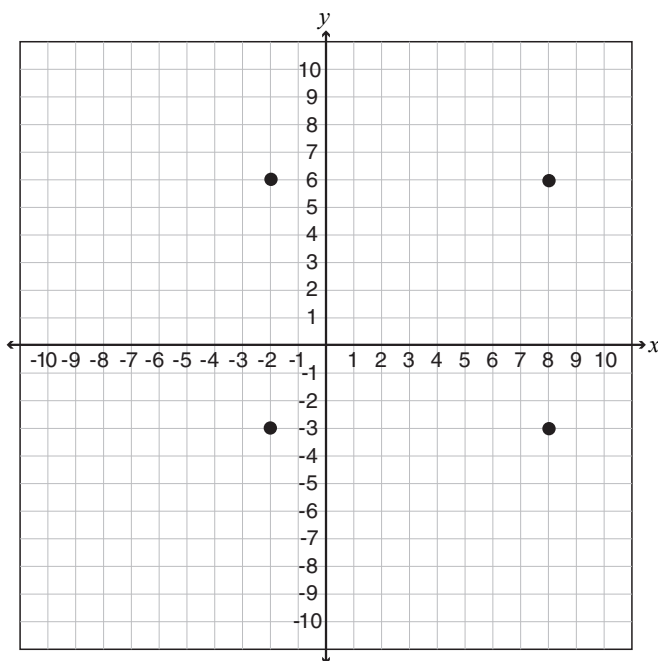
exact answer, 1
 points per box 2
 3
 4

10. Seth is plotting the location of rabbits on a graph.

The rabbits are located at
 $(8, 6)$, $(8, -3)$, $(-2, -3)$.

A. If the vertices form a rectangle, find the location
 of the last vertex: (-2, 6)

B. Plot all the vertices on the graph:



A. exact answer, 1
 points per line 2

B. points per segment 1
 (correct points plotted) 2
 3
 4

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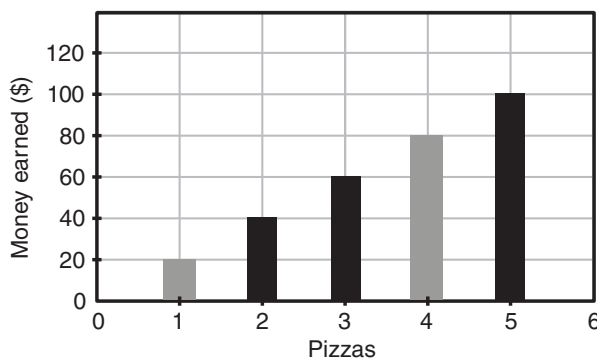
11. Sophie sells pizzas. She earns \$20 per pizza.

A. Fill in the table below to determine how much money Sophie earned.

Pizzas	Money Earned
1	\$20
2	<u>\$40</u>
3	<u>\$60</u>
4	\$80
5	<u>\$100</u>

B. Write an equation that illustrates the relationship between the number of pizzas (p) and the money earned (m): $m = 20p$

C. Make a bar graph for the amount of money earned:



A. exact answer, $\frac{1}{2}$ | 1
 points per box $\frac{2}{3}$ | 2
 $\frac{3}{3}$ | 3

B. exact answer, points per line 1 | 4

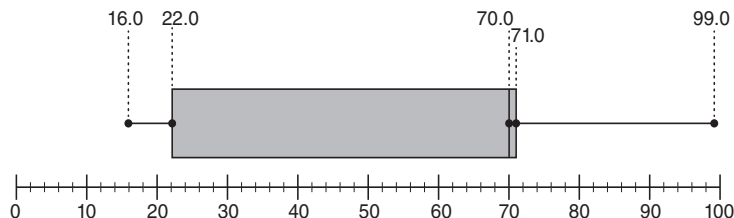
C. exact answer, points per segment $\frac{1}{2}$ | 1
 (each bar graphed) $\frac{2}{3}$ | 2
 $\frac{3}{3}$ | 3

12. You bought 9 pineapples for \$27. If all the pineapples cost the same, what is the cost for each pineapple?

\$ 3 per pineapple.

correct digits 1 | 4

13. Below is the number of minutes some children spent playing basketball:



What is the range of the minutes the children spent playing basketball? 83

What is the median number of minutes the children spent playing basketball? 70

What is the maximum number of minutes the children spent playing basketball? 99

exact answer, $\frac{1}{2}$ | 2
 points per line $\frac{2}{4}$ | 4
 $\frac{3}{6}$ | 6

14. Diver A dove to a sea level depth of -32 feet. Diver B dove to -29 feet.

Which diver dove deeper? Diver A

Diver A was how many feet under water? 32 feet

exact answer, $\frac{1}{2}$ | 1
 points per line $\frac{2}{2}$ | 2

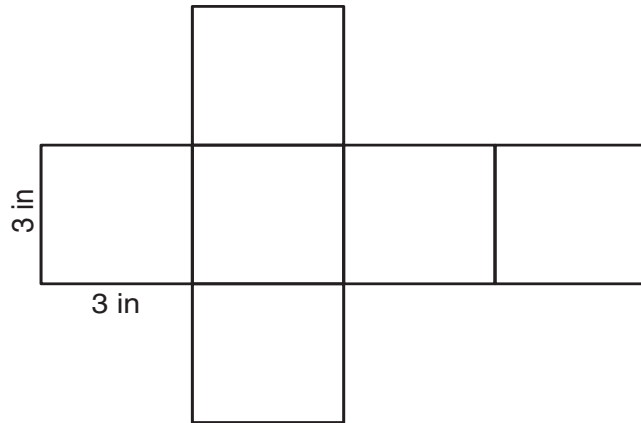
15. $2^2 =$ 4

correct digits 1 | 3

Acadience® Math / Concepts and Applications
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16. Alexander wants to figure out the surface area of a box. What is the surface area of the box?

54 in².



correct digits $\begin{array}{r} 1 \\ 2 \end{array} \begin{array}{|l} 3 \\ 7 \end{array}$

17. Leo runs 6 miles in 54 minutes. If he runs at a constant speed, how long will it take him to run 8 miles?

72 minutes.

correct digits $\begin{array}{r} 1 \\ 2 \end{array} \begin{array}{|l} 4 \\ 8 \end{array}$

18. What is the greatest common factor of 32 and 24? 8

exact answer,
points per line $1 \mid 8$

19. Finn has 4 more than 6 times the colored pencils that Mary has.

Let M = the number of colored pencils that Mary has.

Write an equation using x that describes how many colored pencils Finn has. $X = 6M + 4$
or equivalent

exact answer,
points per line $1 \mid 5$

20. Ken's house is 9 feet below sea level. Talia's house is 6 feet above sea level. Write an inequality that shows the relationship between these two houses: $-9 < 6$

exact answer,
points per line $1 \mid 4$

Scoring Direction

Right to Left
or

Left to Right

Acadience® Math / Concepts and Applications Level 6 / Progress Monitoring 18 / Teacher Key

Total: _____

1. In the forest, there were 73 cougars and 62 bobcats. What is the ratio of cougars to bobcats? 73 : 62
or equivalent

exact answer,
points per line 1 | 2

2. Sophia writes articles. Each week she writes a certain number of articles. The following are the number of articles that Sophia wrote per week: **9, 8, 1, 4, 3.**

A. What is the mean number of articles that Sophia wrote? 5

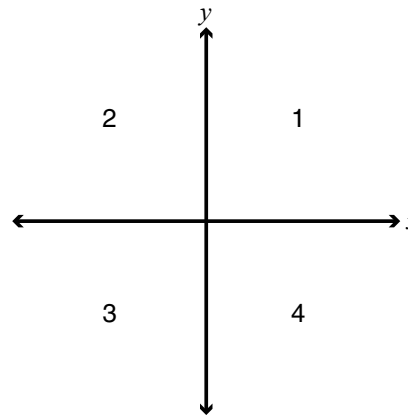
A. correct digits 1 | 11

B. What is the median number of articles that Sophia wrote? 4

B. exact answer,
points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(-7, 2)	2
(8, 9)	1
(7, -8)	4
(-6, -1)	3



exact answer, 1 | 1
2 | 2
points per box 3 | 3

4. A. Write an expression for **3 subtracted from x**: $x - 3$

A. exact answer,
points per line 1 | 3

B. Write an expression for **2 added to x**: $x + 2$
or equivalent

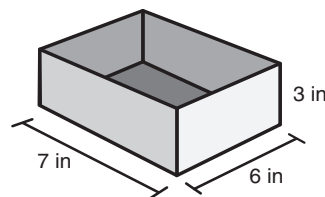
B. exact answer,
points per line 1 | 3

5. Avery has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 126 in³.

B. How many dice will fit inside Avery's box?

1,008 dice.



A. correct digits 1 | 3
2 | 6
3 | 10

B. correct digits 1 | 7
2 | 14
3 | 22
4 | 30

6. Dave rides his horse 6 times every 3 weeks. At this rate, how long will it take him to ride it 4 times?

2 week(s).

correct digits 1 | 6

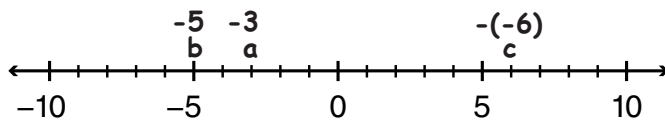
Acadience® Math / Concepts and Applications
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7. Label the following numbers on the number line below:

a. -3

b. -5

c. $-(-6)$



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$33x + 7 < 100$	2	True
$14x - 4 < 100$	7	True

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

4	8
8	16
12	24
16	32
20	40

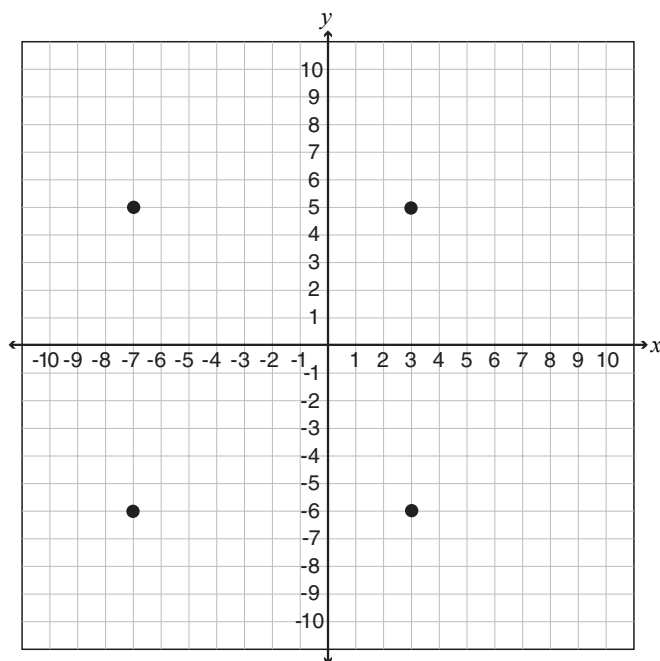
exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. Eli is plotting the location of grocery stores on a graph.

The grocery stores are located at
 $(3, 5)$, $(3, -6)$, $(-7, -6)$.

A. If the vertices form a rectangle, find the location
 of the last vertex: (-7, 5)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 2 | 2
 3 | 3
 (correct points plotted) 4 | 4

**Acadience® Math / Concepts and Applications
Level 6 / Progress Monitoring 18 / Teacher Key**

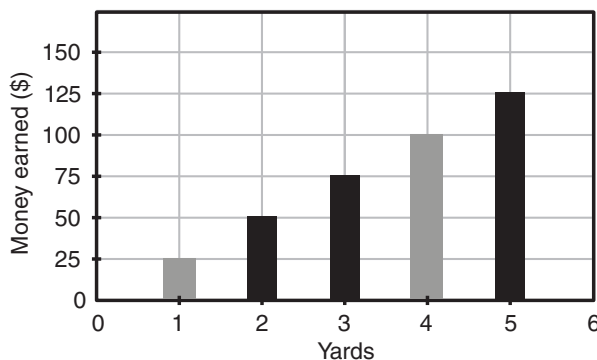
11. Sarah does yard work. She earns \$25 per yard.

A. Fill in the table below to determine how much money Sarah earned.

Yards	Money Earned
1	\$25
2	\$50
3	\$75
4	\$100
5	\$125

B. Write an equation that illustrates the relationship between the number of yards (y) and the money earned (m): $m = 25y$

C. Make a bar graph for the amount of money earned:



A. exact answer, 1 | 1
points per box 2 | 2
3 | 3

B. exact answer, 1 | 4
points per line

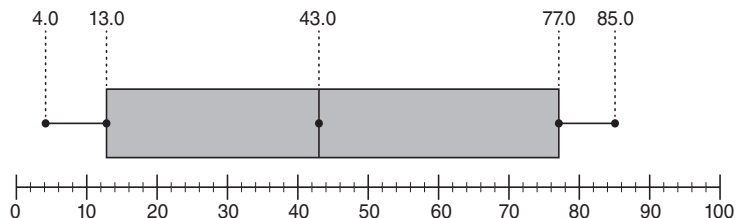
C. exact answer, 1 | 1
points per segment 2 | 2
each bar graphed 3 | 3

12. You bought 3 hats for \$24. If all the hats cost the same, what is the cost for each hat?

\$ 8 per hat.

correct digits 1 | 4

13. Below is the number of minutes people spent swimming at the lake:



What is the range of the minutes people spent swimming at the lake? 81

What is the median number of minutes people spent swimming at the lake? 43

What is the maximum number of minutes people spent swimming at the lake? 85

exact answer, 1 | 2
points per line 2 | 4
3 | 6

14. Diver A dove to a sea level depth of -79 feet. Diver B dove to -13 feet.

Which diver dove deeper? Diver A

Diver A was how many feet under water? 79 feet

exact answer, 1 | 1
points per line 2 | 2

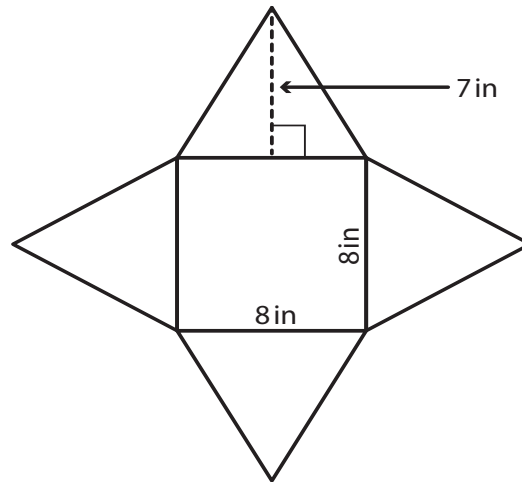
15. $3^3 =$ 27

correct digits 1 | 3
2 | 7

Acadience® Math / Concepts and Applications
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16. Larry wants to figure out the surface area of a pyramid. What is the surface area of the pyramid?

176 in².



correct digits

1		8
2		16
3		25

17. Erica runs 6 miles in 48 minutes. If she runs at a constant speed, how long will it take her to run 4 miles?

32 minutes.

correct digits

1		4
2		8

18. What is the greatest common factor of 56 and 48? 8

exact answer,
points per line

1		8
---	--	---

19. Jasmine has 9 more than 8 times the comic books that Ian has.

Let I = the number of comic books that Ian has.

Write an equation using x that describes how many comic books Jasmine has. $X = 8I + 9$
or equivalent

exact answer,
points per line

1		5
---	--	---

20. Julie's house is 2 feet below sea level. Danny's house is 4 feet above sea level. Write an inequality that shows the relationship between these two houses: $-2 < 4$

exact answer,
points per line

1		4
---	--	---

Scoring Direction

Right to Left
or

Left to Right

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Total: _____

1. At the park, there were 49 pigeons and 12 crows. What is the ratio of pigeons to crows? 49 : 12
or equivalent

exact answer,
points per line 1 | 2

2. Ann likes to draw. Each week she draws a certain number of pictures. The following are the number of pictures that Ann drew per week: **9, 8, 1, 4, 3**.

A. What is the mean number of pictures that Ann drew? 5

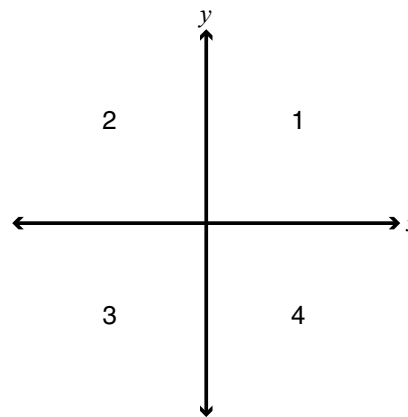
A. correct digits 1 | 11

B. What is the median number of pictures that Ann drew? 4

B. exact answer,
points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(-7, -2)	<u>3</u>
(-4, 3)	<u>2</u>
(7, -5)	4
(6, 2)	<u>1</u>



exact answer, $\frac{1}{2}$ | 1
points per box 3 | 2
3

4. A. Write an expression for **8 subtracted from x**: $x - 8$

A. exact answer,
points per line 1 | 3

B. Write an expression for **7 added to x**: $x + 7$
or equivalent

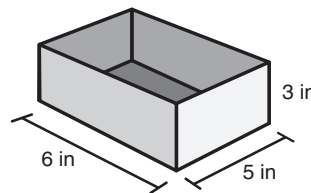
B. exact answer,
points per line 1 | 3

5. Nick has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 90 in³.

B. How many dice will fit inside Nick's box?

720 dice.



A. correct digits $\frac{1}{2}$ | 4
9

B. correct digits $\frac{1}{2}$ | 8
 $\frac{2}{3}$ | 16
25

6. Pablo feeds his cat 4 treats every 2 weeks. At this rate, how long will it take him to feed it 8 treats?

4 week(s).

correct digits 1 | 6

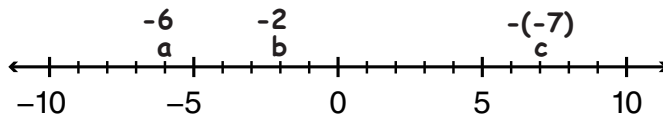
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7. Label the following numbers on the number line below:

a. -6

b. -2

c. $-(-7)$



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$23x + 4 < 100$	5	False
$34x - 8 < 100$	8	False

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

9	8
18	16
27	24
36	32
45	40

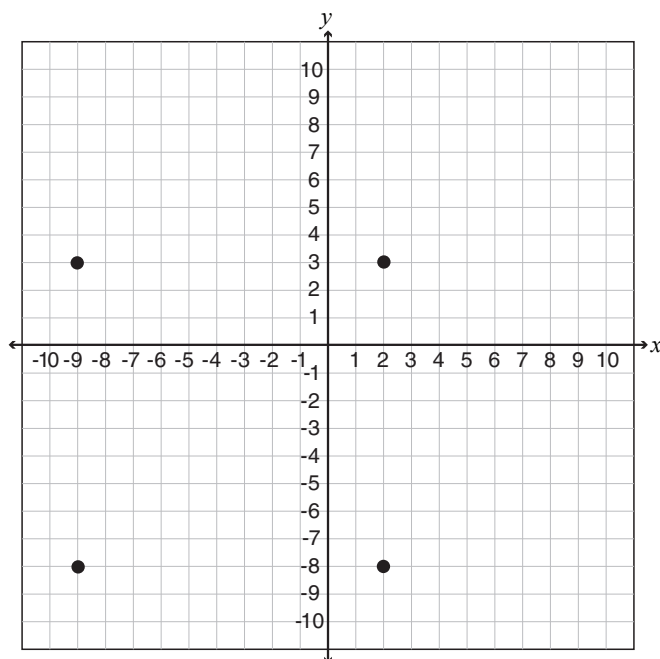
exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

10. Eve is plotting the location of ships on a graph.

The ships are located at
 (2, 3), (2, -8), (-9, -8).

A. If the vertices form a rectangle, find the location
 of the last vertex: (-9, 3)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 (correct points plotted) 2 | 2
 3 | 3
 4 | 4

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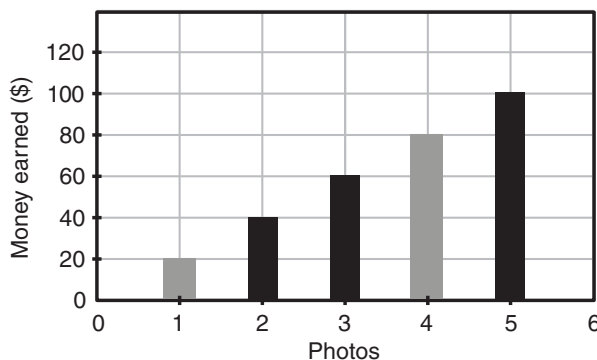
11. Luis is a nature photographer. He earns \$20 per photo.

A. Fill in the table below to determine how much money Luis earned.

Photos	Money Earned
1	\$20
2	\$40
3	\$60
4	\$80
5	\$100

B. Write an equation that illustrates the relationship between the number of photos (p) and the money earned (m): $m = 20p$

C. Make a bar graph for the amount of money earned:



A. exact answer, $\frac{1}{2}$ | **1**
 points per box $\frac{2}{3}$ | **2**
3

B. exact answer, 1 | **4**
 points per line

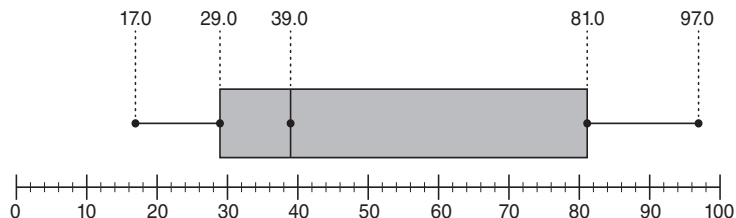
C. exact answer, $\frac{1}{2}$ | **1**
 points per segment $\frac{2}{3}$ | **2**
 (each bar graphed) $\frac{3}{3}$ | **3**

12. You bought 3 granola bars for \$9. If all the granola bars cost the same, what is the cost for each granola bar?

\$ **3** per granola bar.

correct digits 1 | **4**

13. Below is the number of minutes people spent hiking:



What is the range of the minutes people spent hiking? **80**

What is the median number of minutes people spent hiking? **39**

What is the maximum number of minutes people spent hiking? **97**

exact answer, $\frac{1}{2}$ | **2**
 points per line $\frac{4}{3}$ | **4**
6

14. Diver A dove to a sea level depth of -32 feet. Diver B dove to -57 feet.

Which diver dove deeper? **Diver B**

Diver A was how many feet under water? **32** feet

exact answer, 1 | **1**
 points per line $\frac{2}{2}$ | **2**

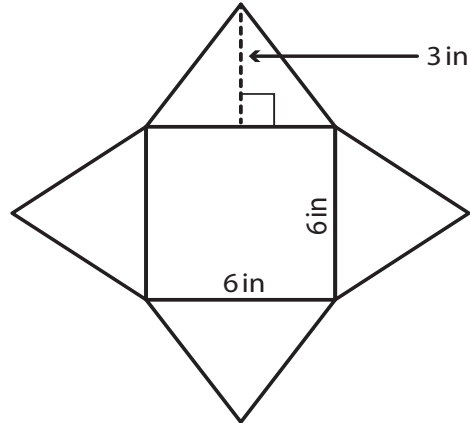
15. $4^3 =$ **64**

correct digits 1 | **4**
 $\frac{2}{9}$

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16. Leo wants to figure out the surface area of a pyramid. What is the surface area of the pyramid?

72 in².



correct digits $\begin{array}{l} 1 \\ 2 \end{array} \mid \begin{array}{l} 10 \\ 20 \end{array}$

17. Maddie runs 2 miles in 12 minutes. If she runs at a constant speed, how long will it take her to run 3 miles?

18 minutes.

correct digits $\begin{array}{l} 1 \\ 2 \end{array} \mid \begin{array}{l} 4 \\ 8 \end{array}$

18. What is the greatest common factor of 21 and 28? 7

exact answer,
points per line $1 \mid 8$

19. Lilly has 2 more than 8 times the number of marbles that Hector has.

Let H = the number of marbles that Hector has.

Write an equation using x that describes how many marbles Lilly has. $X = 8H + 2$
or equivalent

exact answer,
points per line $1 \mid 5$

20. Brooke's house is 9 feet below sea level. Juan's house is 8 feet above sea level. Write an inequality that shows the relationship between these two houses: $-9 < 8$

exact answer,
points per line $1 \mid 4$

Scoring Direction

Right to Left
or

Left to Right

Acadience® Math / Concepts and Applications Level 6 / Progress Monitoring 20 / Teacher Key

Total: _____

1. At the store, there were 45 magazines and 68 books. What is the ratio of magazines to books? 45 : 68
or equivalent

exact answer,
points per line 1 | 2

2. Emily writes short stories. Each week she writes a certain number of short stories. The following are the number of short stories that Emily wrote per week: 9, 8, 1, 4, 3.

A. What is the mean number of short stories that Emily wrote? 5

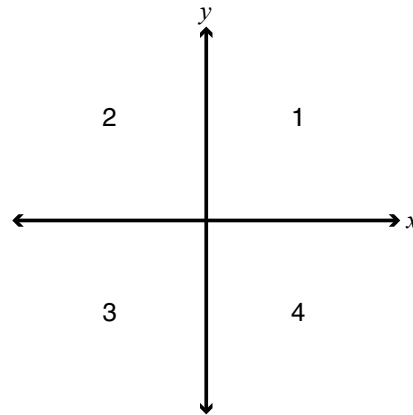
A. correct digits 1 | 11

B. What is the median number of short stories that Emily wrote? 4

B. exact answer,
points per line 1 | 5

3. Fill in the missing quadrants to complete the table:

Point	Quadrant
(-3, -9)	<u>3</u>
(4, -7)	4
(3, 7)	<u>1</u>
(-3, 5)	<u>2</u>



exact answer, $\frac{1}{2}$ | 1
points per box 3 | 2
3 | 3

4. A. Write an expression for 4 subtracted from x : $x - 4$

A. exact answer,
points per line 1 | 3

B. Write an expression for 2 added to x : $x + 2$
or equivalent

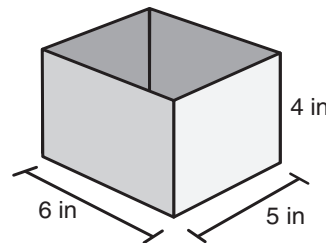
B. exact answer,
points per line 1 | 3

5. Tony has a box and a bag of dice. The dice are $\frac{1}{2}$ inch by $\frac{1}{2}$ inch by $\frac{1}{2}$ inch.

A. What is the volume of the box? 120 in³.

B. How many dice will fit inside Tony's box?

960 dice.



A. correct digits $\frac{1}{2}$ | 3
3 | 6
10

B. correct digits $\frac{1}{2}$ | 7
3 | 15
23

6. Lucy reads 6 books in 2 weeks. At this rate, how long will it take her to read 9 books?

3 week(s).

correct digits 1 | 6

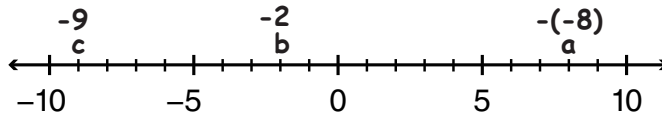
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7. Label the following numbers on the number line below:

a. $-(-8)$

b. -2

c. -9



exact answer, 1 | 1
 points per segment 2 | 2
 (each labeled number) 3 | 3

8. Write "True" if the substitution makes the inequality true or write "False" if the substitution makes the inequality false:

Inequality	$x =$	Write True or False
$15x + 3 < 100$	4	True
$19x - 7 < 100$	9	False

exact answer, 1 | 3
 points per box 2 | 6

9. Complete the ratio table:

7	9
14	18
21	27
28	36
35	45

exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4

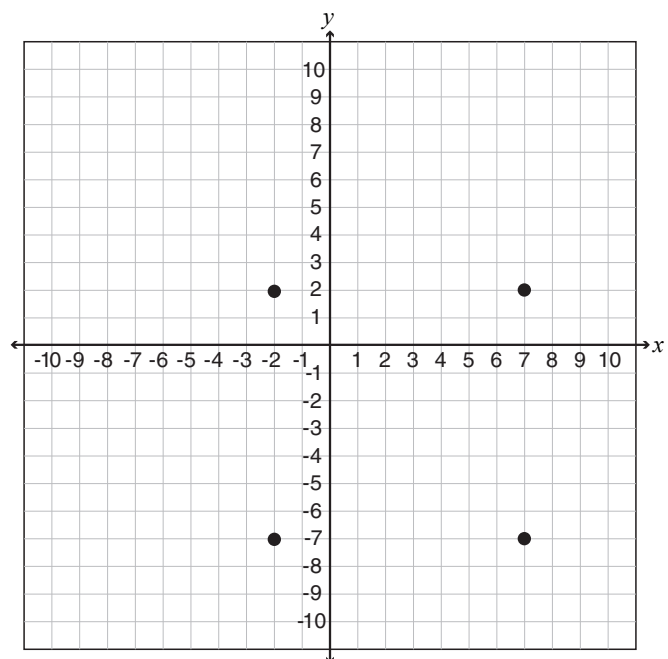
10. Matt is plotting the location of schools on a graph.

The schools are located at

$(7, 2)$, $(7, -7)$, $(-2, -7)$.

A. If the vertices form a rectangle, find the location of the last vertex: (-2, 2)

B. Plot all the vertices on the graph:



A. exact answer, 1 | 1
 points per line 2 | 2

B. points per segment 1 | 1
 2 | 2
 (correct points plotted) 3 | 3
 4 | 4

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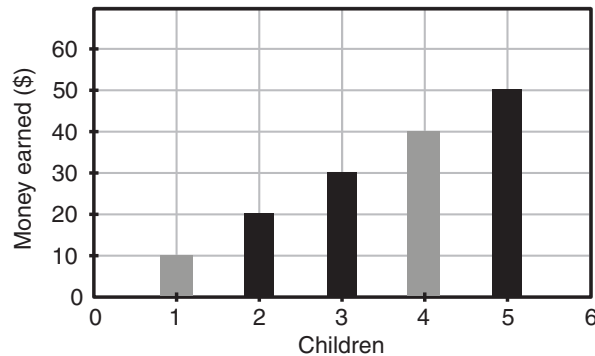
11. Nate often babysits for his neighbors. He earns \$10 per child.

A. Fill in the table below to determine how much money Nate earned.

Children	Money Earned
1	\$10
2	\$20
3	\$30
4	\$40
5	\$50

B. Write an equation that illustrates the relationship between the number of children (c) and the money earned (m): $m = 10c$

C. Make a bar graph for the amount of money earned:



A. exact answer, $\frac{1}{2}$ | **1**
points per box $\frac{2}{3}$ | **2**
 $\frac{3}{3}$ | **3**

B. exact answer, points per line 1 | **4**

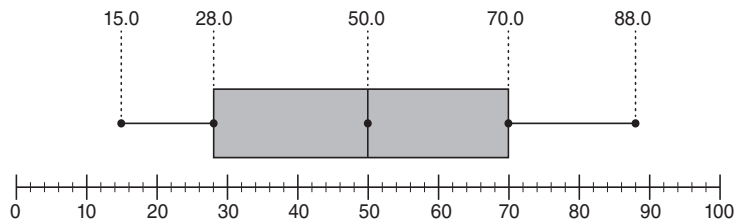
C. exact answer, points per segment $\frac{1}{2}$ | **1**
(each bar graphed) $\frac{2}{3}$ | **2**
 $\frac{3}{3}$ | **3**

12. You bought 7 small notebooks for \$21. If all the notebooks cost the same, what is the cost for each notebook?

\$ **3** per notebook.

correct digits 1 | **4**

13. Below is the number of minutes people at the birthday party spent dancing:



What is the range of the minutes people spent dancing? **73**

What is the median number of minutes people spent dancing? **50**

What is the maximum number of minutes people spent dancing? **88**

exact answer, $\frac{1}{2}$ | **2**
points per line $\frac{2}{4}$ | **4**
 $\frac{3}{6}$ | **6**

14. Diver A dove to a sea level depth of -12 feet. Diver B dove to -97 feet.

Which diver dove deeper? **Diver B**

Diver A was how many feet under water? **12** feet

exact answer, points per line $\frac{1}{2}$ | **1**
 $\frac{2}{2}$ | **2**

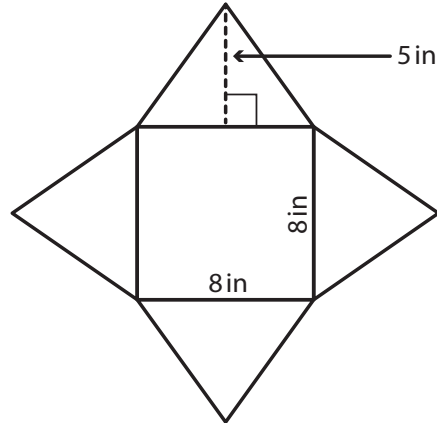
15. $3^3 =$ **27**

correct digits $\frac{1}{2}$ | **3**
 $\frac{3}{7}$ | **7**

**Acadience® Math / Concepts and Applications
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16. Ying wants to figure out the surface area of a pyramid. What is the surface area of the pyramid?

144 in².



correct digits

1	7
2	15
3	23

17. Jackson bikes 5 miles in 35 minutes. If he bikes at a constant speed, how long will it take him to bike 7 miles?

49 minutes.

correct digits

1	4
2	8

18. What is the greatest common factor of 15 and 20? 5

exact answer,
points per line

1	8
---	---

19. Liam has 7 more than 2 times the points that Pip has.

Let P = the number of points that Pip has.

Write an equation using x that describes how many points Liam has. $X = 2P + 7$
or equivalent

exact answer,
points per line

1	5
---	---

20. Zach's house is 2 feet below sea level. Laura's house is 7 feet above sea level. Write an inequality that shows the relationship between these two houses: $-2 < 7$

exact answer,
points per line

1	4
---	---