

# acadience<sup>®</sup>math

## Computation Concepts and Applications

Grade 6 | Benchmark 1

### Student Worksheets

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## Grade 6 / Benchmark 1

Name: \_\_\_\_\_ Student ID: \_\_\_\_\_

Teacher: \_\_\_\_\_ School: \_\_\_\_\_ School Year: \_\_\_\_\_

**Acadience® Math / Computation Grade 6  
Benchmark 1 / Form A**

**Total:** \_\_\_\_\_

1. $\begin{array}{r} 63.7 \\ + 25.2 \\ \hline \end{array}$	2. $\begin{array}{r} 2.93 \\ - 1.61 \\ \hline \end{array}$	3. $\begin{array}{r} 586 \\ \times 78 \\ \hline \end{array}$	4. $38 \overline{)7220}$
5. $7\frac{5}{6} - 4\frac{6}{9} =$	6. $\begin{array}{r} 20.96 \\ + 19.76 \\ \hline \end{array}$	7. $\begin{array}{r} 53.70 \\ - 6.89 \\ \hline \end{array}$	8. $\begin{array}{r} 31.2 \\ \times 3.1 \\ \hline \end{array}$
9. $1.2 \overline{)732}$	10. $\begin{array}{r} 4.96 \\ + 4.06 \\ \hline \end{array}$	11. $\begin{array}{r} 2.7 \\ \times 3 \\ \hline \end{array}$	12. $25 \overline{)4975}$
13. $\begin{array}{r} 9.84 \\ \times 7.2 \\ \hline \end{array}$	14. $7.6 \overline{)2.28}$	15. $\begin{array}{r} 5.44 \\ - 3.65 \\ \hline \end{array}$	16. $3.1 \overline{)31.93}$

**Acadience® Math / Computation Grade 6  
Benchmark 1 / Form B**

**Total:** \_\_\_\_\_

1. $\begin{array}{r} 60.1 \\ + 8.2 \\ \hline \end{array}$	2. $\begin{array}{r} 3.29 \\ - 2.18 \\ \hline \end{array}$	3. $\begin{array}{r} 789 \\ \times 78 \\ \hline \end{array}$	4. $53 \overline{)1590}$
5. $9\frac{7}{9} - 4\frac{2}{3} =$	6. $\begin{array}{r} 38.63 \\ + 24.58 \\ \hline \end{array}$	7. $\begin{array}{r} 33.64 \\ - 6.85 \\ \hline \end{array}$	8. $\begin{array}{r} 42.3 \\ \times 2.1 \\ \hline \end{array}$
9. $3.5 \overline{)175}$	10. $\begin{array}{r} 3.68 \\ + 3.37 \\ \hline \end{array}$	11. $\begin{array}{r} 4.9 \\ \times 2 \\ \hline \end{array}$	12. $31 \overline{)6975}$
13. $\begin{array}{r} 2.76 \\ \times 8.6 \\ \hline \end{array}$	14. $4.7 \overline{)8.46}$	15. $\begin{array}{r} 6.82 \\ - 1.97 \\ \hline \end{array}$	16. $1.3 \overline{)13.91}$

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**Grade 6 / Benchmark 1**

**Total:** \_\_\_\_\_

1. At the aquarium there were 24 zebra fish and 61 clown fish. What is the ratio of zebra fish to clown fish? \_\_\_\_\_

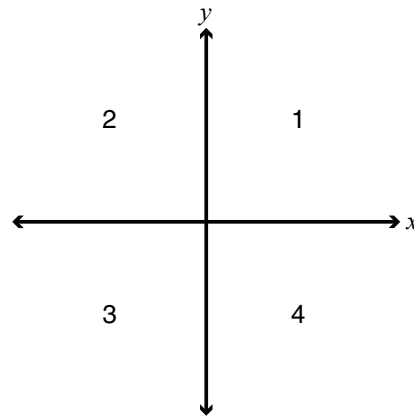
2. Doug delivers papers to houses on the weekends. The following are the number of papers that Doug delivered: **5, 2, 9, 9, 5**.

A. What is the mean number of papers that Doug delivered? \_\_\_\_\_

B. What is the median number of papers that Doug delivered? \_\_\_\_\_

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

Point	Quadrant
$(-5, 7)$	
$(-5, -5)$	
$(4, -7)$	4
$(1, 7)$	



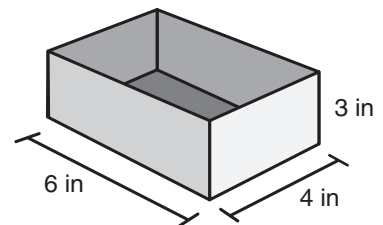
4. A. Write an expression for **8 subtracted from  $x$** : \_\_\_\_\_

B. Write an expression for **5 added to  $x$** : \_\_\_\_\_

5. Roy has a box and a bag of blocks. A 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? \_\_\_\_\_ in<sup>3</sup>.

B. How many blocks will fit inside Hannah's box?  
\_\_\_\_\_ blocks.



6. It takes Aunt Jen 2 weeks to make 6 hats. At this rate, how long will it take Aunt Jen to make 9 hats? \_\_\_\_\_ week(s).

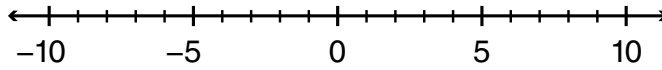
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**Grade 6 / Benchmark 1**

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

a.  $-(-3)$

b.  $-6$

c.  $-2$



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
$14x - 9 < 100$	5	
$27x + 8 < 100$	9	

9. Complete the ratio table:

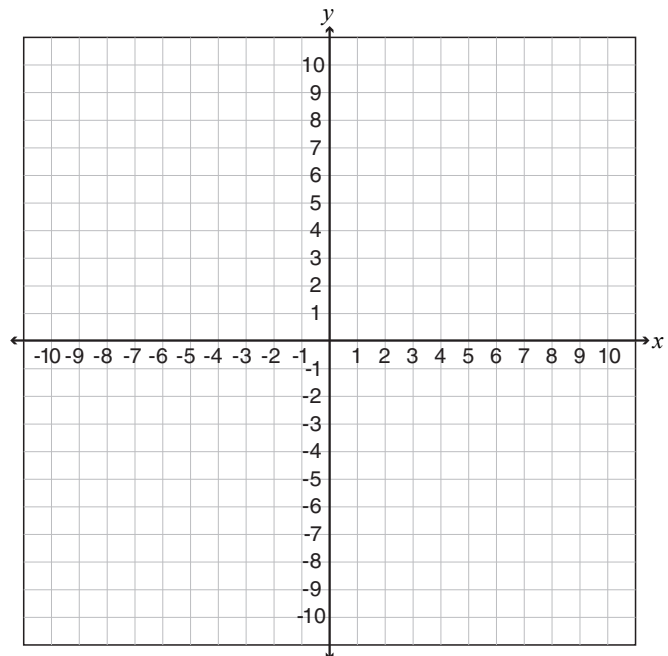
3	15
9	45
12	
	75

10. You are drawing an aerial view of a building.

The corners of the building are located at  
 $(9, 2)$ ,  $(9, -6)$ ,  $(-8, -6)$ .

A. If the vertices form a rectangle, find the location  
of the last vertex: ( \_\_\_\_\_, \_\_\_\_\_ )

B. Plot all the vertices on the graph:



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## Grade 6 / Benchmark 1

11. Tony earns \$5 per child that he babysits.

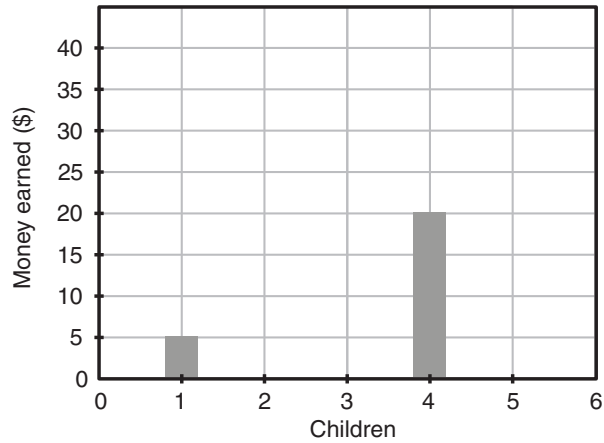
A. Fill in the table below to determine how much money Tony earned.

Children	Money Earned
1	\$5
2	
3	
4	\$20
5	

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

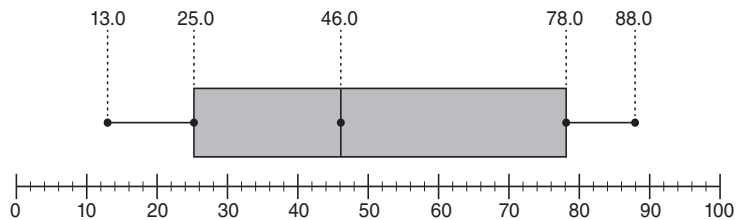
\_\_\_\_\_

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



12. You went shopping at the mall and bought 7 shirts for \$49. If all of the shirts cost the same, what is the cost of each shirt?  
\$\_\_\_\_\_ per shirt.

13. Below is the number of books a group of students read over the summer:



What is the range of books read over the summer? \_\_\_\_\_

What is the median number of books read over the summer? \_\_\_\_\_

What is the maximum number of books read over the summer? \_\_\_\_\_

14. Diver A dove to a sea level depth of  $-28$  feet. Diver B dove to  $-35$  feet.

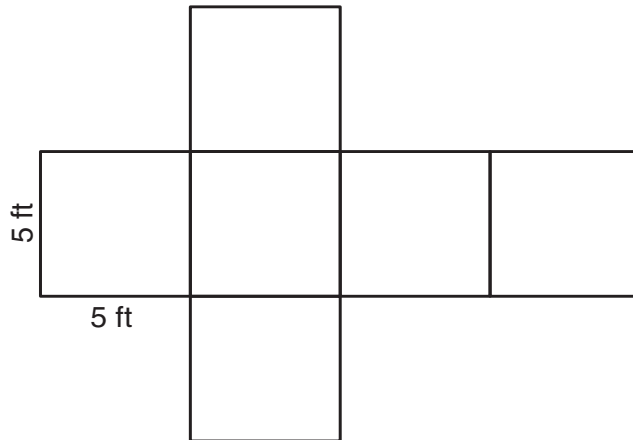
Which diver dove deeper? \_\_\_\_\_

Diver A was how many feet under water? \_\_\_\_\_ feet

15.  $4^3 =$  \_\_\_\_\_

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**Grade 6 / Benchmark 1**

16. David wanted to figure out the surface area of the tool shed behind his house. What is the surface area of the tool shed? \_\_\_\_\_  $\text{ft}^2$ .



17. Mateo can run 5 miles in 70 minutes. If he runs at a constant speed, how long would it take him to run 4 miles? \_\_\_\_\_ minutes.

18. What is the greatest common factor of 54 and 30? \_\_\_\_\_

19. Our class is playing basketball. Santiago made 6 fewer than 4 times the baskets that Ross made.

Let  $R$  = the number of baskets that Ross made.

Write an equation using  $x$  that describes how many baskets Santiago made. \_\_\_\_\_

20. In the mountains it was  $-3^{\circ}\text{C}$ . At the coast it was  $13^{\circ}\text{C}$ . Write an inequality to show the relationship between these temperatures:

\_\_\_\_\_