

acadience™ math

Concepts and Applications

Grade 4 | Benchmark Assessment

Teacher Key

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Scoring Direction

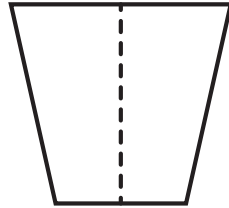
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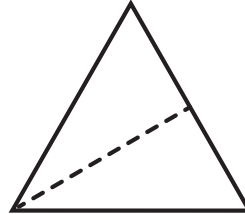
Acadience™ Math / Concepts and Applications Grade 4 / Benchmark 1 / Teacher Key

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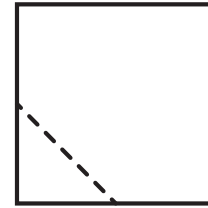
1. Is the dotted line a line of symmetry for each shape? Write "yes" or "no" in the space provided below each shape.



yes



yes



no

exact answer, points per line

1 | 1
2 | 2
3 | 3

2. Compare the number in Box 1 with the number in Box 2. Fill in the blank with > (greater than), = (equal to), or < (less than):

Box 1	>, =, <	Box 2
835	>	751
333	<	613
131	<	168

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

3. List three numbers that are multiples of 4:

8 12 16 or equivalent

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

4. Jake read 17 books over the summer that were non-fiction and 43 books that were fiction. His friend Ross read 38 books total. How many more books did Jake read than Ross? 22 books.

correct digits 1 | 6
2 | 12

5. Compare the decimal in Box 1 with the decimal in Box 2. Fill in the blank with > (greater than), = (equal to), or < (less than):

Box 1	>, =, <	Box 2
0.47	>	0.25
0.39	<	0.68
0.89	<	0.91

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

6. We rented a movie that was 2 hours and 15 minutes long. How many minutes total was the movie? 135 minutes.

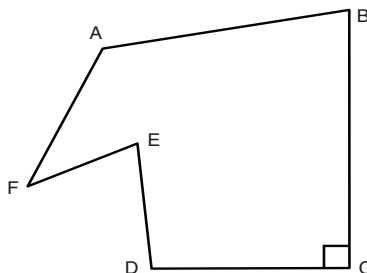
correct digits 1 | 4
2 | 9
3 | 14

Acadience™ Math / Concepts and Applications
Grade 4 / Benchmark 1 / Teacher Key

7. Name one right angle: C or equivalent

Name one obtuse angle: A or D or equivalent

Name one acute angle: B, E or F or equivalent



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

8. Round to the nearest...

Number	...nearest hundred	...nearest ten	...nearest thousand
2461	2,500	2,460	2,000
4672	4,700	4,670	5,000

exact answer, 1 | 1
 points per box 2 | 2
 3 | 3
 4 | 4
 5 | 5
 6 | 6

9. Olive is 8 years old. Karen is 32 years old. How many times older is Karen than Olive? 4 times older.

correct digits 1 | 4

10. Compare the fraction in Box 1 with the fraction in Box 2. Fill in the blank with > (greater than), = (equal to), or < (less than):

Box 1	>, =, <	Box 2
$\frac{2}{10}$	<	$\frac{2}{5}$
$\frac{3}{9}$	=	$\frac{1}{3}$

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

11. Convert into minutes. 1 hour = 60 minutes:

Hours	Minutes
2	120
7	420
4	240

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

12. Draw two **line segments** that are **parallel**:



exact answer, 1 | 1
 points per segment 2 | 2
 (line segments and parallel)

13. Write the following in expanded form: **68,472**

60,000 + 8,000 + 400 + 70 + 2

exact answer, 1 | 1
 points per segment 2 | 2
 3 | 3
 4 | 4
 5 | 5
 (each part of the expanded form)

Acadience™ Math / Concepts and Applications
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14. Stan worked for 3 hours and 12 minutes. He then worked 23 minutes. What is the total number of minutes that Stan worked?

215 minutes.


correct digits

1	5
2	10
3	16

15. Write the fractions as a decimal:

$\frac{9}{10} =$.9

$\frac{79}{100} =$.79

exact answer,

1	2
2	4

points per line

16. Dan bought a hat for \$22.12. He gave clerk \$25.00. How much change did he get back? \$ 2.88



correct digits

1	3
2	6
3	9
4	12

17. Prime or composite: **37, 90, 83, 88**

Write which are prime numbers: 37 , 83 .

Write which are composite numbers: 90 , 88 .

exact answer,

1	1
2	2
3	3
4	4

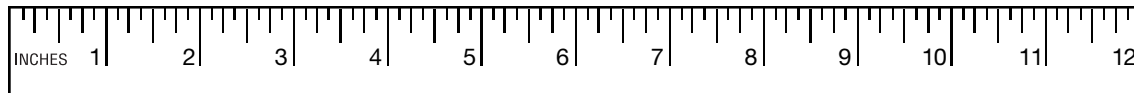
points per line

18. Ruth walked to school 4 times last week. She has to walk $\frac{1}{2}$ of a mile to get to school. How many miles did she walk last week?

2 miles.


correct digits 1 | 5

19. The pencil is $4\frac{1}{4}$ inches long and the pen is $6\frac{1}{2}$ inches long. Exactly how much longer is the pen than the pencil? 2 $\frac{1}{4}$ inches.



correct digits

1	3
2	6
3	9

20. The width of Ann's garden was 7 feet. The area of her garden was 63 square feet. What was the length of her garden?

9 feet.


correct digits 1 | 4

Scoring Direction

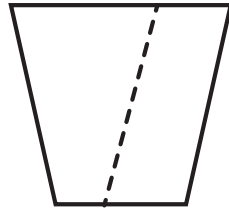
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Left to Right

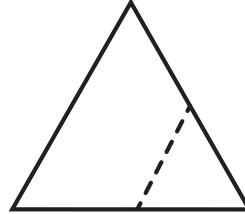
Acadience™ Math / Concepts and Applications Grade 4 / Benchmark 2 / Teacher Key

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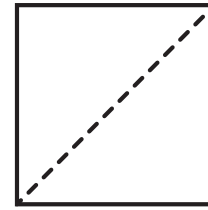
1. Is the dotted line a line of symmetry for each shape? Write "yes" or "no" in the space provided below each shape.



no



no



yes

exact answer, points per line

1	1
2	2
3	3

2. Compare the number in Box 1 with the number in Box 2. Fill in the blank with > (greater than), = (equal to), or < (less than):

Box 1	>, =, <	Box 2
529	<	705
471	<	846
461	>	325

exact answer, points per box

1	1
2	2
3	3

3. List three numbers that are multiples of 3:

6 9 12 or equivalent

exact answer, points per line

1	2
2	4
3	6

4. In the basketball game, José scored 26 points in the first half and 46 in the second half. His friend, Marie, scored 39 points total. How many more points did José score than Marie? 33 points.

correct digits

1	6
2	12

5. Compare the decimal in Box 1 with the decimal in Box 2. Fill in the blank with > (greater than), = (equal to), or < (less than):

Box 1	>, =, <	Box 2
0.29	>	0.25
0.18	<	0.64
0.58	<	0.72

exact answer, points per box

1	2
2	4
3	6

6. Cole did homework for 3 hours and 12 minutes. How many minutes total did Cole do homework? 192 minutes.

correct digits

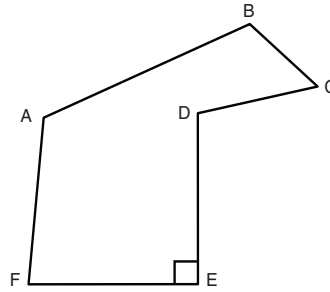
1	4
2	9
3	14

Acadience™ Math / Concepts and Applications
Grade 4 / Benchmark 2 / Teacher Key

7. Name one right angle: E or equivalent

Name one obtuse angle: A, B or D or equivalent

Name one acute angle: C or F or equivalent



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

8. Round to the nearest...

Number	...nearest hundred	...nearest ten	...nearest thousand
8255	8,300	8,260	8,000
6435	6,400	6,440	6,000

1 | 1
 2 | 2
 3 | 3
 4 | 4
 exact answer, 5 | 5
 points per box 6 | 6

9. Jim is 9 years old. Tim is 27 years old. How many times older is Tim compared to Jim? 3 times older.

correct digits 1 | 4

10. Compare the fraction in Box 1 with the fraction in Box 2. Fill in the blank with > (greater than), = (equal to), or < (less than):

Box 1	>, =, <	Box 2
$\frac{5}{8}$	<	$\frac{3}{4}$
$\frac{9}{12}$	<	$\frac{5}{6}$

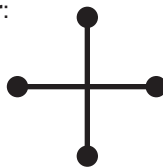
exact answer, 1 | 3
 points per box 2 | 6

11. Convert into ounces. 1 pound = 16 ounces:

Pounds	Ounces
3	48
4	64
5	80

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

12. Draw two **line segments** that are **perpendicular**:



exact answer,
 points per segment 1 | 1
 (line segments and perpendicular) 2 | 2

13. Write the following in expanded form: **43,797**

40,000 + 3,000 + 700 + 90 + 7

exact answer, 1 | 1
 2 | 2
 3 | 3
 points per segment 4 | 4
 (each part of the expanded form) 5 | 5

Acadience™ Math / Concepts and Applications
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14. Paul spent 2 hours and 43 minutes in the car. He then went on a trip in the car that took 35 minutes. What is the total number of minutes that Paul was in the car? 198 minutes.

correct digits

1	5
2	10
3	16

15. Write the fractions as a decimal:

$$\frac{1}{10} = \underline{.1}$$

$$\frac{35}{100} = \underline{.35}$$

exact answer, points per line

1	2
2	4

16. Rose bought a scarf for \$17.84. She gave the clerk a \$20.00 bill. How much change did she get back? \$ 2.16

correct digits

1	4
2	6
3	8
4	12

17. Prime or composite: **24, 25, 67, 41**

Write which are prime numbers: 41, 67.

Write which are composite numbers: 24, 25.

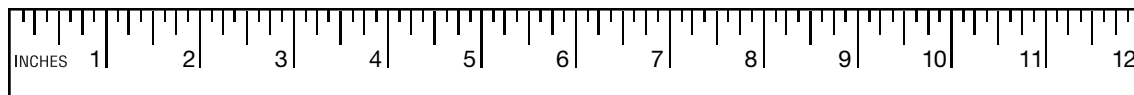
exact answer, points per line

1	1
2	2
3	3
4	4

18. We spent 6 hours making food. We spent $\frac{2}{3}$ of that time making a pumpkin pie. How long did it take us to make the pumpkin pie? 4 hours.

correct digits 1 | 6

19. The pencil is $3\frac{1}{2}$ inches long and the pen is $5\frac{3}{4}$ inches long. Exactly how much longer is the pen than the pencil? $2\frac{1}{4}$ inches.



correct digits

1	3
2	6
3	9

20. Trish wants to put carpet on the floor of her dog's house. The area of the doghouse is 42 square feet. The width of the doghouse is 6 feet. How long will the piece of carpet need to be? 7 feet.

correct digits 1 | 4

Scoring Direction

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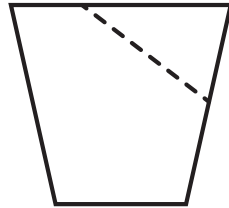
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Acadience™ Math / Concepts and Applications

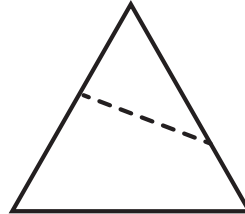
Grade 4 / Benchmark 3 / Teacher Key

Total: _____

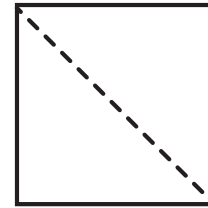
1. Is the dotted line a line of symmetry for each shape? Write "yes" or "no" in the space provided below each shape.



no



no



yes

exact answer, points per line

1	1
2	2
3	3

2. Compare the number in Box 1 with the number in Box 2. Fill in the blank with > (greater than), = (equal to), or < (less than):

Box 1	>, =, <	Box 2
732	<	807
154	<	806
438	>	330

exact answer, points per box

1	1
2	2
3	3

3. List three numbers that are multiples of 8:

16 24 32 or equivalent

exact answer, points per line

1	2
2	4
3	6

4. Bob scored 22 points on the first quiz and 18 points on the second quiz. Stan scored 17 points total. How many more points did Bob have than Stan? 23 points.

correct digits

1	6
2	12

5. Compare the decimal in Box 1 with the decimal in Box 2. Fill in the blank with > (greater than), = (equal to), or < (less than):

Box 1	>, =, <	Box 2
0.17	<	0.37
0.24	<	0.54
0.86	>	0.75

exact answer, points per box

1	2
2	4
3	6

6. Emily read a book for 2 hours and 3 minutes. How many minutes total did Emily read? 123 minutes.

correct digits

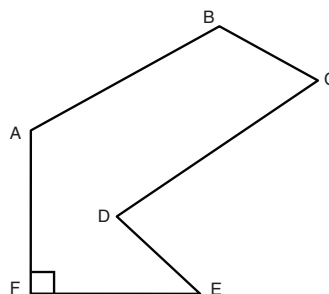
1	4
2	8
3	13

Acadience™ Math / Concepts and Applications
Grade 4 / Benchmark 3 / Teacher Key

7. Name one right angle: F or equivalent

Name one obtuse angle: A or B or equivalent

Name one acute angle: C, D or E or equivalent



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

8. Round to the nearest...

Number	...nearest hundred	...nearest ten	...nearest thousand
8179	8,200	8,180	8,000
7287	7,300	7,290	7,000

exact answer, 1 | 1
 2 | 2
 3 | 3
 4 | 4
 5 | 5
 points per box 6 | 6

9. Tyler is 3 years old. Grace is 24 years old. How many times older is Grace than Tyler? 8 times older.

correct digits 1 | 4

10. Compare the fraction in Box 1 with the fraction in Box 2. Fill in the blank with > (greater than), = (equal to), or < (less than):

Box 1	>, =, <	Box 2
$\frac{1}{2}$	<	$\frac{3}{4}$
$\frac{4}{10}$	<	$\frac{3}{5}$

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

11. Convert into grams. 1 kilogram = 1,000 grams:

Kilogram	Gram
8	8,000
3	3,000
6	6,000

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

12. Draw two **rays** that are **parallel**:



exact answer, 1 | 1
 points per segment 2 | 2
 (rays and parallel)

13. Write the following in expanded form: **29,566**

20,000 + 9,000 + 500 + 60 + 6

exact answer, 1 | 1
 2 | 2
 points per segment 3 | 3
 4 | 4
 (each part of the expanded form) 5 | 5

Acadience™ Math / Concepts and Applications
Grade 4 / Benchmark 3 / Teacher Key

14. Will walked for 2 hours and 30 minutes. He later walked for 28 minutes. What is the total number of minutes that Will walked?

178 minutes.

correct digits

1	5
2	10
3	16

15. Write the fractions as a decimal:

$$\frac{6}{10} = \underline{.6}$$

$$\frac{61}{100} = \underline{.61}$$

exact answer,

1	2
2	4

points per line

16. Drew bought a game for \$12.15. He gave the clerk \$20.00. How much change did he get back? \$ 7.85

correct digits

1	4
2	6
3	8
4	12

17. Prime or composite: **37, 47, 48, 60**

Write which are prime numbers: 37, 47.

Write which are composite numbers: 48, 60.

exact answer,

1	1
2	2
3	3
4	4

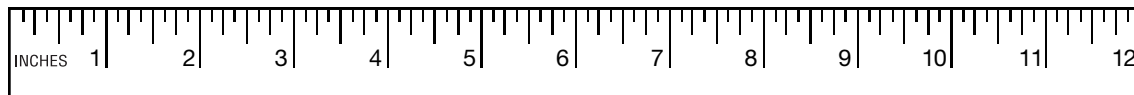
points per line

18. Tony spent 8 hours mowing the lawn. $\frac{1}{4}$ of that time was spent mowing the front lawn. How long did it take Tony to mow the front lawn? 2 hours.

correct digits 1 | 5

19. The pencil is $2\frac{1}{2}$ inches long and the pen is $5\frac{3}{4}$ inches long. Exactly how much longer is the pen than the pencil?

$3\frac{1}{4}$ inches.



correct digits

1	3
2	6
3	9

20. Chris has a piece of paper. The area of the paper is 40 square inches. The width of the paper is 5 inches. How long is the piece of paper? 8 inches.

correct digits 1 | 4