

# acadience<sup>®</sup>math

## Concepts and Applications

### Grade 4 | Benchmark 3

## Teacher Key

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## For use with Acadience Learning Online

**Scoring Direction**


Right to Left

or

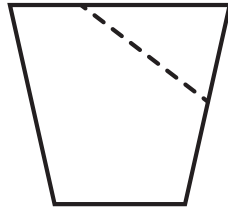
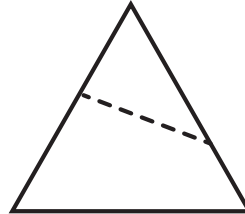
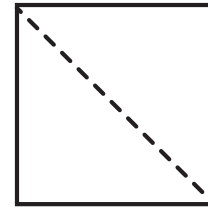


Left to Right

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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

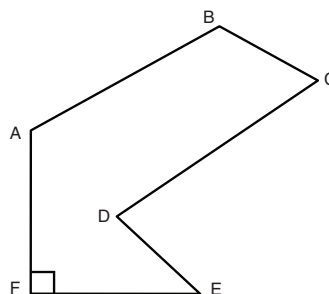
1	4
2	8
3	13

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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...

Number	...to the nearest hundred	...to the nearest ten	...to the nearest thousand
8179	<b>8,200</b>	<b>8,180</b>	<b>8,000</b>
7287	<b>7,300</b>	<b>7,290</b>	<b>7,000</b>

exact answer, 1 | 1  
 points per box 2 | 2  
 3 | 3  
 4 | 4  
 5 | 5  
 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
$\frac{1}{2}$	<b>&lt;</b>	$\frac{3}{4}$
$\frac{4}{10}$	<b>&lt;</b>	$\frac{3}{5}$

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

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

Kilogram	Gram
8	<b>8,000</b>
3	<b>3,000</b>
6	<b>6,000</b>

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

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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:

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

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

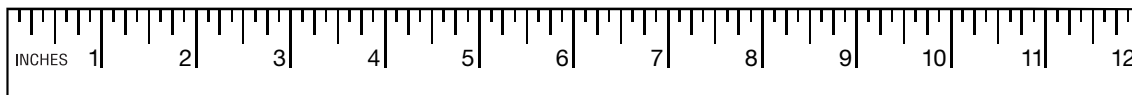
  
points per line

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 hour(s).

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