Name Date Time

LESSON 8•9

Self Assessment

Progress Check 8

Think about each skill listed below. Assess your own progress by checking the most appropriate box.

Skills	I can do this on my own and explain how to do it.	I can do this on my own.	I can do this if I get help or look at an example.
1. Add and subtract fractions.			
2. Make a scale drawing.			
3. Determine the probability of an event.			
4. Find the perimeter of a polygon.			
5. Count squares and fractions of squares to find the area of a polygon.			
6. Use a formula to find the area of a rectangle, parallelogram, and triangle.			

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LESSON 8•9

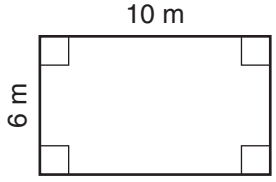
Written Assessment

Progress Check 8

Part A

Find the perimeter of each polygon.

1.

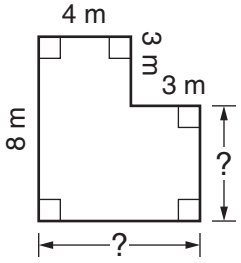


Number model:

_____

Perimeter = _____ m

2.



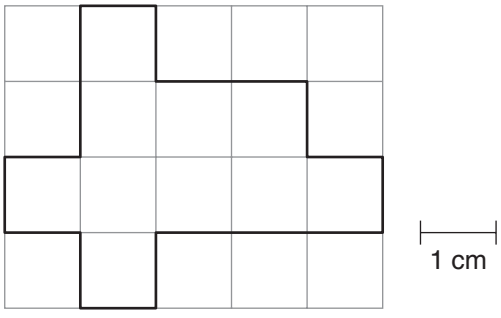
Number model:

_____

Perimeter = _____ m

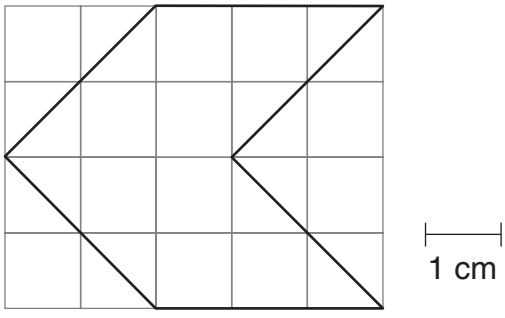
Find the area of each polygon.

3.



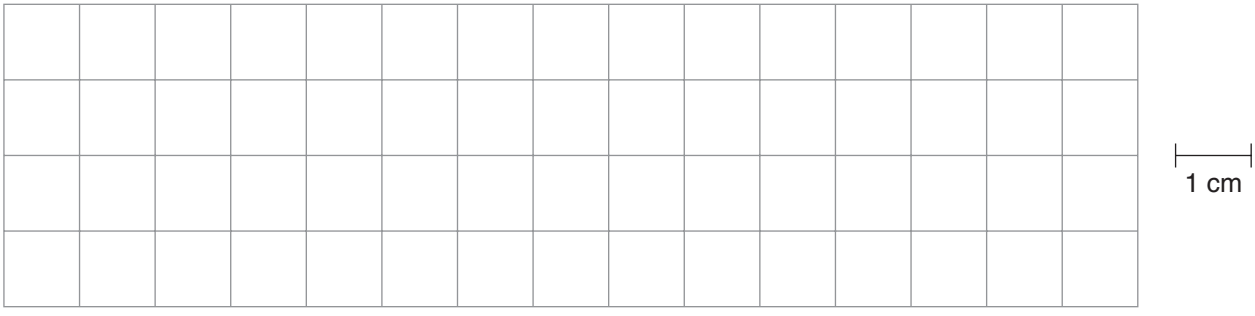
Area = _____ square centimeters

4.



Area = _____ square centimeters

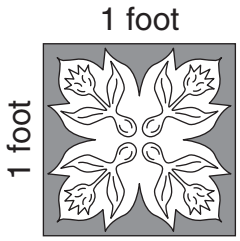
5. Draw a rectangle with an area of 12 square centimeters and a perimeter of 16 centimeters.



LESSON 8•9

Written Assessment *continued*

6. Mrs. Lopez wants to tile her kitchen floor. The room is 10 feet wide and 12 feet long. How many 1-square-foot tiles does she need to cover the floor?



_____ tiles

7. Suppose Mrs. Lopez chooses smaller tiles that are only 6 inches on each side. How many 6-inch tiles would she need to cover her kitchen floor?

_____ tiles

Explain the strategy you used to solve the problem.

_____

_____

Add or subtract.

8. $\frac{1}{5} + \frac{2}{5} =$ _____ **9.** _____ $= \frac{4}{9} + \frac{1}{3}$ **10.** $\frac{8}{10} - \frac{5}{10} =$ _____ **11.** _____ $= \frac{7}{10} - \frac{1}{2}$

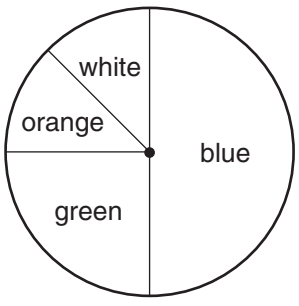
12. If you spin the spinner 600 times, how many times would you expect it to land

on blue? _____

on green? _____

on orange? _____

on white? _____



13. A jar contains 12 blue blocks, 5 red blocks, 6 orange blocks, and 2 green blocks.

You put your hand in the jar and, without looking, pull out a block. About what fraction of the time would you expect to get a red block?

_____

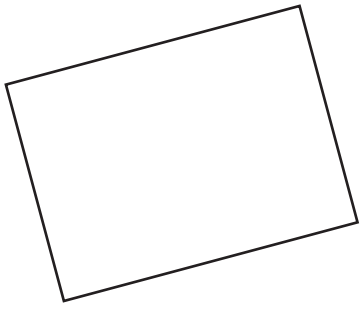
LESSON 8•9

Written Assessment *continued*

Part B

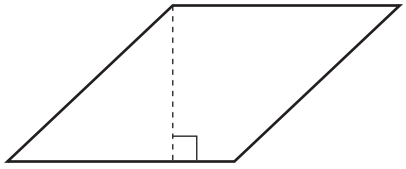
Formulas		
Rectangle	Parallelogram	Triangle
Area = base ∗ height	Area = base ∗ height	Area = $\frac{1}{2}$ ∗ (base ∗ height)

Complete. Measure each with a centimeter ruler.



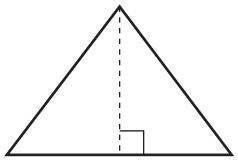
14. base = _____ cm perimeter = _____ cm

height = _____ cm Area = _____ cm^2



15. base = _____ cm perimeter = _____ cm

height = _____ cm Area = _____ cm^2



16. base = _____ cm perimeter = _____ cm

height = _____ cm Area = _____ cm^2

In each problem below, a scale and the lengths of the sides of a rectangle are given. Make a scale drawing of each rectangle.

17. Scale: 1 cm represents 5 meters

Dimensions of rectangle:
15 meters by 35 meters

18. Scale: 1 cm represents 10 meters

Dimensions of rectangle:
40 meters by 55 meters

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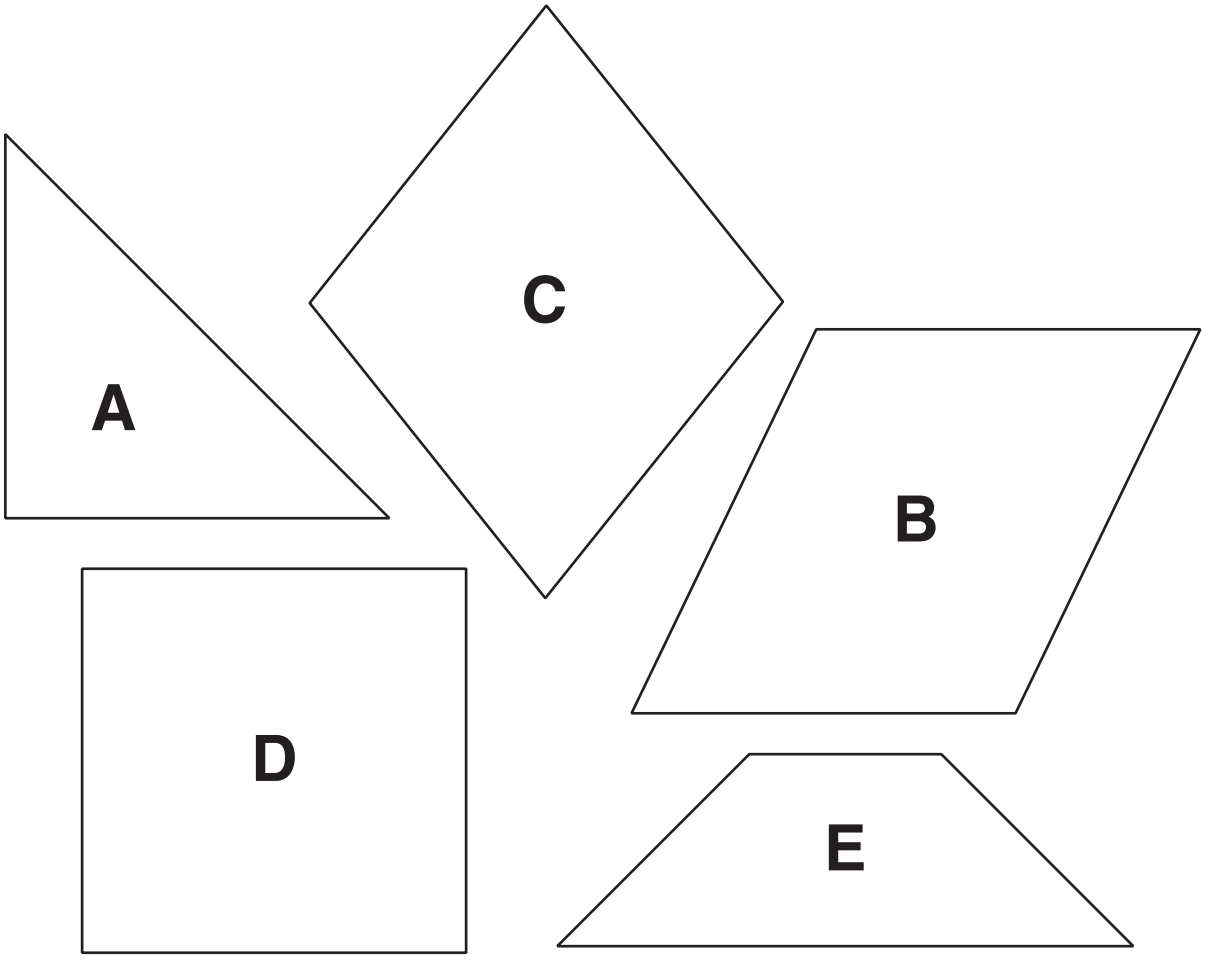
LESSON 8•9

Open Response

Progress Check 8

Comparing Areas

Carefully cut out each of the shapes below.



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LESSON 8•9

Open Response *continued*

Progress Check 8

Comparing Areas

1. Arrange shapes A–D in order of their area. (You may not measure with a ruler.) List the letters of the shapes from largest to smallest. If some shapes have the same area, write the letters next to each other and circle them.

2. Explain the steps you followed to figure out the order of each of the shapes. You may draw pictures to illustrate your steps.

Try This

3. Compare shapes A and E. Tell which has the larger area. Explain how you compared the shapes.