

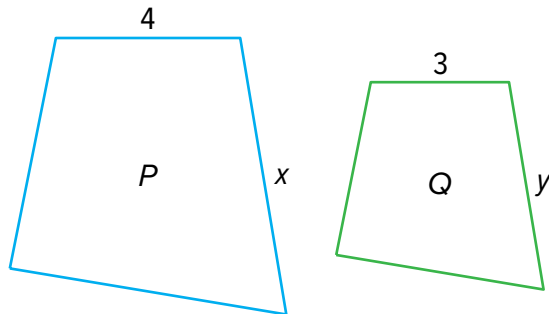
NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_



## Practice

### Scale Drawings

1. Polygon Q is a scaled copy of Polygon P.

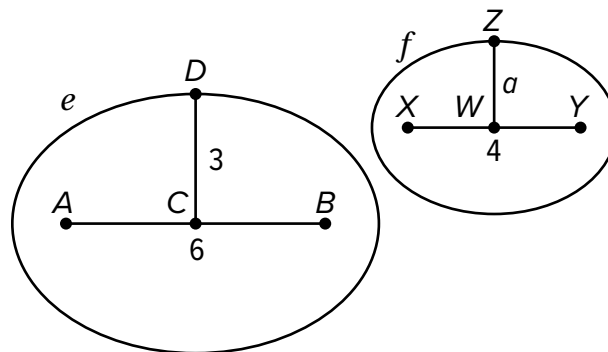


- The value of  $x$  is 6, what is the value of  $y$ ?
- What is the scale factor?

2. Figure  $f$  is a scaled copy of Figure  $e$ .

We know:

- $AB = 6$
- $CD = 3$
- $XY = 4$
- $ZW = a$



Select **all** true equations.

- $\frac{6}{3} = \frac{4}{a}$
- $\frac{6}{4} = \frac{3}{a}$
- $\frac{3}{4} = \frac{6}{a}$
- $\frac{6}{3} = \frac{a}{4}$
- $\frac{6}{4} = \frac{a}{3}$
- $\frac{3}{4} = \frac{a}{6}$

3. Solve each equation.

a.  $\frac{2}{5} = \frac{x}{15}$

b.  $\frac{4}{3} = \frac{x}{7}$

c.  $\frac{7}{5} = \frac{28}{x}$

d.  $\frac{11}{4} = \frac{5}{x}$

4. Select the shape that has 180 degree rotational symmetry. (Lesson 2-14)

(A) Rhombus

(B) Trapezoid

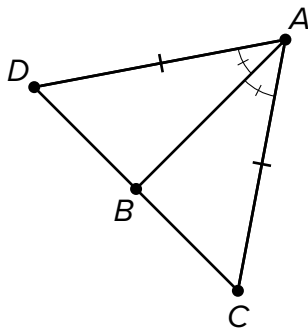
(C) Isosceles trapezoid

(D) Quadrilateral

5. Name a quadrilateral in which the diagonal is also a line of symmetry. Explain how you know the diagonal is a line of symmetry. (Lesson 2-14)

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6. In isosceles triangle  $DAC$ ,  $AD$  is congruent to  $AC$  and  $AB$  is an angle bisector of angle  $DAC$ . How does Kiran know that  $AB$  is a perpendicular bisector of segment  $CD$ ? (Lesson 2-8)



7. In the figure shown, lines  $f$  and  $g$  are parallel. Select **all** angles that are congruent to angle 1. (Lesson 1-20)

(A.) 1

(B.) 2

(C.) 3

(D.) 4

(E.) 5

(F.) 6

(G.) 7

(H.) 8

