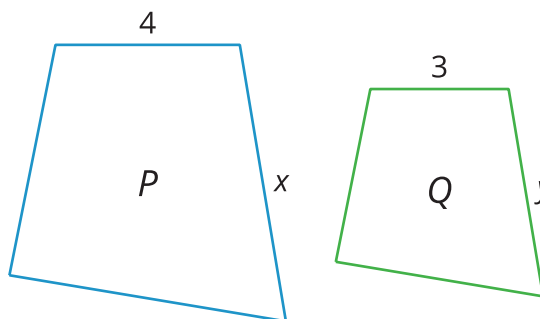


Lesson 1 Practice Problems

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

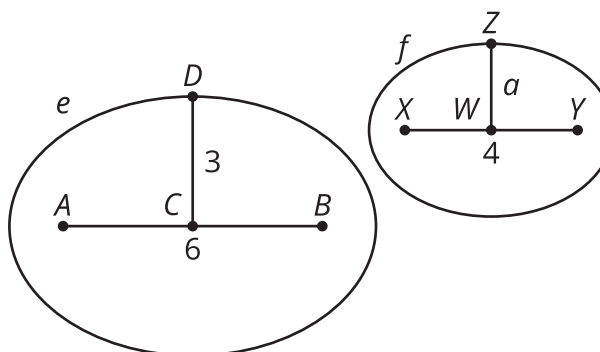


- The value of x is 6, what is the value of y ?
- What is the scale factor?

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.

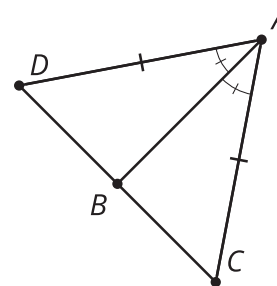
- A. Rhombus
- B. Trapezoid
- C. Isosceles trapezoid
- D. Quadrilateral

(From Unit 2, Lesson 14.)

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.

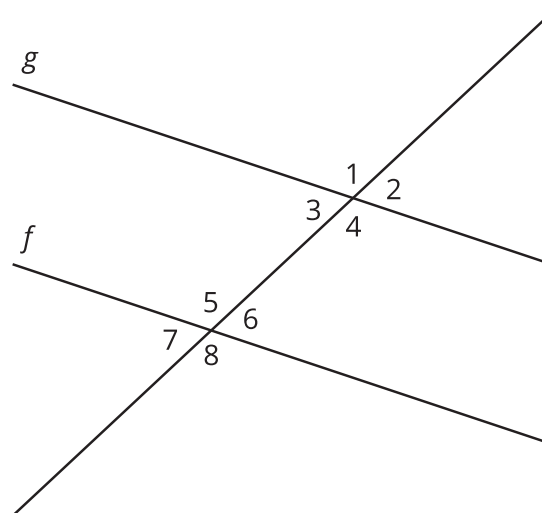
(From Unit 2, Lesson 14.)

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 ?



(From Unit 2, Lesson 8.)

7. In the figure shown, lines f and g are parallel. Select **all** angles that are congruent to angle 1.



- A. 1
- B. 2
- C. 3
- D. 4
- E. 5
- F. 6
- G. 7
- H. 8

(From Unit 1, Lesson 20.)