

Chapter 4

Chapter 4 Maintaining Mathematical Proficiency (p. 171)

1. The red figure is a mirror image of the blue figure, so it is a reflection.
2. The blue figure turns to form the red figure, so it is a rotation.
3. The red figure is larger than the blue figure, so it is a dilation.
4. The blue figure slides to form the red figure, so it is a translation.

5. no; Corresponding sides are not proportional.

$$\frac{3}{4} \neq \frac{11}{12}$$

6. yes; Corresponding angles are congruent, and corresponding side lengths are proportional.

$$\frac{18}{15} = \frac{11}{9}$$

$$\frac{8}{12} = \frac{10}{15}$$

$$\frac{8}{8} = \frac{11}{11}$$

7. yes; Corresponding angles are congruent and corresponding side lengths are proportional.

$$\frac{3}{4} = \frac{6}{8} = \frac{3}{4}$$

8. no; Squares have four right angles, so the corresponding angles are always congruent. Because all four sides of a square are congruent, the corresponding sides will always be proportional.

Chapter 4 Mathematical Practices (p. 172)

1. The side lengths are $AB \approx 4.24$, $BC \approx 4.12$, and $CA \approx 4.12$ and the angle measurements are $m\angle B \approx 59.04^\circ$, $m\angle A \approx 59.04^\circ$, and $m\angle C \approx 61.93^\circ$.



2. The side lengths are $AB = 2$, $BC \approx 5.83$, and $CA \approx 5.10$ and the angle measurements are $m\angle A \approx 101.31^\circ$, $m\angle B \approx 59.04^\circ$, and $m\angle C \approx 19.65^\circ$.



3. The side lengths are $AB = 4$, $BC = 3$, $AD = 3$, and $CD = 4$ and the angle measurements are $m\angle A = 90^\circ$, $m\angle B = 90^\circ$, $m\angle C = 90^\circ$, and $m\angle D = 90^\circ$.



4. The side lengths are $AB = 4$, $BC \approx 3.16$, $AD \approx 3.16$, and $CD = 4$ and the angle measurements are $m\angle A \approx 108.43^\circ$, $m\angle B \approx 71.57^\circ$, $m\angle C \approx 108.43^\circ$, and $m\angle D \approx 71.57^\circ$.



5. The side lengths are $AB \approx 4.24$, $BC \approx 4.24$, $AD \approx 4.24$, and $CD \approx 4.24$ and the angle measurements are $m\angle A = 90^\circ$, $m\angle B = 90^\circ$, $m\angle C = 90^\circ$, and $m\angle D = 90^\circ$.



Discovering Geometry Assessment Resources Chapter 4

SJ Ball



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