

Chapter 8

Chapter 8 Maintaining Mathematical Proficiency (p. 415)

1. $\frac{5}{3} = \frac{5 \div 7}{3 \div 7} = \frac{35}{21}$

$\frac{5}{3}$ and $\frac{35}{21}$ form a proportion.

2. $\frac{9 \div 3}{24 \div 3} = \frac{3}{8}$

$\frac{24 \div 8}{64 \div 8} = \frac{3}{8}$

$\frac{9}{24}$ and $\frac{24}{64}$ form a proportion.

3. $\frac{8 \div 8}{56 \div 8} = \frac{1}{7}$

$\frac{6 \div 2}{28 \div 2} = \frac{3}{14}$

$\frac{8}{56}$ and $\frac{6}{28}$ do not form a proportion.

4. $\frac{18 \div 2}{4 \div 2} = \frac{9}{2}$

$\frac{27 \div 9}{9 \div 9} = \frac{3}{1} = 3$

$\frac{18}{4}$ and $\frac{27}{9}$ do not form a proportion.

5. $\frac{15 \div 3}{21 \div 3} = \frac{5}{7}$

$\frac{35 \div 11}{77 \div 11} = \frac{5}{7}$

$\frac{15}{21}$ and $\frac{35}{77}$ form a proportion.

6. $\frac{26 \div 2}{8 \div 2} = \frac{13}{4}$

$\frac{39 \div 3}{12 \div 3} = \frac{13}{4}$

$\frac{26}{8}$ and $\frac{39}{12}$ form a proportion.

7. $\frac{CP'}{CP} = \frac{6}{14} = \frac{3}{7}$

The scale factor is

$k = \frac{3}{7}$.

8. $\frac{CP'}{CP} = \frac{24}{9} = \frac{8}{3}$

The scale factor is

$k = \frac{8}{3}$.

9. $\frac{AP'}{AP} = \frac{28}{14} = 2$

The scale factor is $k = 2$.

10. yes; All of the ratios are equivalent by the Transitive Property of Equality.

Chapter 8 Mathematical Practices (p. 416)

1. a. $k = 2$

$P = 2 + 3 + 6 + 3 = 16$ centimeters

$kP = 2 \cdot 16 = 32$ centimeters

$A = \frac{1}{2} \cdot 3 \cdot (2 + 6)$

$= \frac{1}{2} \cdot 3 \cdot (8)$

$= 3 \cdot (4)$

$= 12$ square centimeters

$k^2A = 2^2 \cdot 12 = 4 \cdot 12 = 48$ square centimeters

b. $k = 3$

$P = 2 + 3 + 6 + 3 = 16$ centimeters

$kP = 3 \cdot 16 = 48$ centimeters

$A = \frac{1}{2} \cdot 3 \cdot (2 + 6)$

$= \frac{1}{2} \cdot 3 \cdot (8)$

$= 3 \cdot (4) = 12$ square centimeters

$k^2A = 3^2 \cdot 12 = 9 \cdot 12 = 108$ square centimeters

c. $k = 4$

$P = 2 + 3 + 6 + 3 = 16$ centimeters

$kP = 4 \cdot 16 = 64$ centimeters

$A = \frac{1}{2} \cdot 3 \cdot (2 + 6)$

$= \frac{1}{2} \cdot 3 \cdot (8)$

$= 3 \cdot (4) = 12$ square centimeters

$k^2A = 4^2 \cdot 12 = 16 \cdot 12 = 192$ square centimeters

2. a. $k = 2$

$P = 2 + 3 + 2 + 3 = 14$ feet

$kP = 2 \cdot 14 = 28$ feet

$A = 2 \cdot 4 = 8$ square feet

$k^2A = 2^2 \cdot 8 = 4 \cdot 8 = 32$ square feet

b. $k = 3$

$P = 2 + 3 + 2 + 3 = 14$ feet

$kP = 3 \cdot 14 = 42$ feet

$A = 2 \cdot 4 = 8$ square feet

$k^2A = 3^2 \cdot 8 = 9 \cdot 8 = 72$ square feet

c. $k = \frac{1}{2}$

$P = 2 + 3 + 2 + 3 = 14$ feet

$kP = \frac{1}{2} \cdot 14 = 7$ feet

$A = 2 \cdot 4 = 8$ square feet

$k^2A = \left(\frac{1}{2}\right)^2 \cdot 8 = \frac{1}{4} \cdot 8 = 2$ square feet

3. Surface area = $2 \cdot \text{height} \cdot \text{width} + 2 \cdot \text{height} \cdot \text{length}$
 $+ 2 \cdot \text{length} \cdot \text{width}$

Volume of a rectangular prism = $\text{length} \cdot \text{width} \cdot \text{height}$

a. $k = 2$

$S = 2 \cdot 3 \cdot 3 + 2 \cdot 3 \cdot 4 + 2 \cdot 3 \cdot 4$

$= 30 + 40 + 24 = 94$ square inches

$k^2S = 4 \cdot 94 = 376$ square inches

$V = 3 \cdot 4 \cdot 3 = 60$ cubic inches

$k^3V = 2^3 \cdot 60 = 8 \cdot 60 = 480$ cubic inches

b. $k = 3$

$S = 2 \cdot 3 \cdot 3 + 2 \cdot 3 \cdot 4 + 2 \cdot 3 \cdot 4$

$= 30 + 40 + 24 = 94$ square inches

$k^2S = 9 \cdot 94 = 846$ square inches

$V = 3 \cdot 4 \cdot 3 = 60$ cubic inches

$k^3V = 3^3 \cdot 60 = 27 \cdot 60 = 1620$ cubic inches

Geometry Chapter 8 Extra Practice

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