

# Chapter 10 Answers

## Practice 10-1

1. 8    2. 8    3. 60    4. 240    5. 2,635    6. 192  
 7. 0.8125    8. 9    9. 1500    10. 8.75    11. 3.44  
 12. 7    13. 110    14. 30    15. 16    16. 119  
 17. 12    18. 48    19. 40    20. 56

## Practice 10-2

1.  $48 \text{ cm}^2$     2.  $784 \text{ in.}^2$     3.  $11.4 \text{ ft}^2$     4.  $90 \text{ m}^2$   
 5.  $2400 \text{ in.}^2$     6.  $374 \text{ ft}^2$     7.  $160 \text{ cm}^2$     8.  $176.25 \text{ in.}^2$   
 9.  $54 \text{ ft}^2$     10. 42.5 square units    11.  $96\sqrt{3}$  square units  
 12.  $36\sqrt{3}$  square units    13.  $45 \text{ cm}^2$     14.  $226.2 \text{ in.}^2$   
 15. 49,500  $\text{m}^2$

## Practice 10-3

1.  $x = 7; y = 35\sqrt{3}$     2.  $a = 60; c = 5\sqrt{3}; d = 5\sqrt{3}$   
 3.  $p = 4\sqrt{3}; q = 8; x = 30$     4.  $m\angle 1 = 45; m\angle 2 = 45;$   
 $m\angle 3 = 90; m\angle 4 = 90$     5.  $m\angle 5 = 60; m\angle 6 = 30;$   
 $m\angle 7 = 120$     6.  $m\angle 8 = 60; m\angle 9 = 30; m\angle 10 = 60$   
 7.  $12\sqrt{3}$     8.  $36.75\sqrt{3}$     9.  $25\sqrt{3}$     10.  $120 \text{ in.}^2$   
 11.  $137 \text{ in.}^2$     12.  $97 \text{ in.}^2$

## Practice 10-4

1. 4 : 5; 16 : 25    2. 5 : 3; 25 : 9    3. 3 : 4; 9 : 16    4. 1 : 2  
 5. 9 : 5    6. 1 : 6    7. 8 : 3    8.  $\frac{4\sqrt{2}}{3} \text{ in.}^2$     9.  $\frac{22\sqrt{3}}{3} \text{ cm}^2$   
 10.  $\frac{11\sqrt{2}}{2} \text{ in.}^2$     11. 2 : 3    12. 1 : 2    13. 2 : 3  
 14.  $108 \text{ ft}^2$

## Practice 10-5

1.  $174.8 \text{ cm}^2$     2.  $578 \text{ ft}^2$     3.  $1258.5 \text{ mm}^2$   
 4.  $192.6 \text{ m}^2$     5.  $1121.4 \text{ in.}^2$     6.  $419.2 \text{ cm}^2$   
 7.  $324.9 \text{ in.}^2$     8.  $162 \text{ cm}^2$     9.  $37.6 \text{ m}^2$     10.  $30.1 \text{ mi}^2$   
 11.  $55.4 \text{ km}^2$     12.  $357.6 \text{ in.}^2$     13.  $9.7 \text{ mm}^2$   
 14.  $384.0 \text{ in.}^2$     15.  $54.5 \text{ cm}^2$     16.  $9.1 \text{ ft}^2$   
 17.  $80.9 \text{ m}^2$     18.  $83.1 \text{ m}^2$     19.  $65.0 \text{ ft}^2$     20.  $119.3 \text{ ft}^2$   
 21.  $8 \text{ m}^2$     22.  $55.4 \text{ ft}^2$

## Practice 10-6

1.  $32x$     2.  $16x$     3.  $78x$     4. Samples  $\overline{DFA}, \overline{ABF}$   
 5. Samples  $\overline{FE}, \overline{FD}$     6. Samples  $\overline{FEB}, \overline{EDA}$   
 7. Samples  $\overline{FE}, \overline{ED}$     8.  $\angle ACB$     9.  $\angle FCD$   
 10. 32    11. 43    12. 54    13. 39    14. 71  
 15. 90    16. 50    17. 220    18. 140    19. 220  
 20. 150    21.  $6x \text{ in.}$     22.  $16x \text{ cm}$     23.  $\frac{2}{3}x \text{ m}$

## Practice 10-7

1.  $48x$     2. 21.2    3.  $\frac{4\sqrt{2}}{3}x$     4.  $\frac{4\sqrt{2}}{3}x - 21.2$     5.  $\frac{1}{2}x$   
 or  $\frac{x}{2}$     6.  $\frac{1}{2}$     7.  $\frac{1}{10}x$  or  $\frac{x}{10}$     8.  $\frac{1}{10}x - \frac{1}{2}$     9.  $4x$   
 10.  $\frac{4\sqrt{2}}{3}x$     11.  $\frac{2}{3}x$     12.  $\frac{1}{2}x$     13.  $\frac{4\sqrt{2}}{3}x$     14.  $6x$

15.  $\frac{9\sqrt{2}}{2}x$     16.  $\frac{2\sqrt{2}}{3}x$     17.  $\frac{5}{2}$     18. 3  
 19. 2    20. 10

## Practice 10-8

1. 8.7%    2. 10.9%    3. 15.3%    4.  $\frac{5}{10}$     5.  $\frac{7}{10}$   
 6.  $\frac{2}{3}$     7.  $\frac{1}{10}$     8. 1    9.  $\frac{1}{2}$     10. 22.2%    11. 4.0%  
 12. 37.5%    13. 20%    14. 50%    15. 40%  
 16. 33 $\frac{1}{3}$ %

## Reteaching 10-1

1. Sample:



2. Sample:



3.  $20 \text{ cm}^2$     4.  $55 \text{ in.}^2$     5. 6 m    6. 8 ft    7. 4 in.

8. Sample:



9. 5 in.    10. 25 cm    11. 9 ft

## Reteaching 10-2

1. Sample:



2. Sample: bases = 6 cm and 10 cm, height = 6 cm

3. Sample: 48  $\text{cm}^2$     4. Check students' work.

5. Sample:



6. Sample: diagonals = 4 cm and 9 cm    7. Sample:  $18 \text{ cm}^2$

8. Check students' work.    9.  $144 \text{ ft}^2$     10.  $112 \text{ in.}^2$

11.  $75 \text{ m}^2$     12.  $98.4 \text{ cm}^2$

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**JG Myers**



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