

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 cm^2 2. 784 in.^2 3. 11.4 ft^2 4. 90 m^2
 5. 2400 in.^2 6. 374 ft^2 7. 160 cm^2 8. 176.25 in.^2
 9. 54 ft^2 10. 42.5 square units 11. $96\sqrt{3}$ square units
 12. $36\sqrt{3}$ square units 13. 45 cm^2 14. 226.2 in.^2
 15. 49,500 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 in.^2
 11. 137 in.^2 12. 97 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 ft^2

Practice 10-5

1. 174.8 cm^2 2. 578 ft^2 3. 1258.5 mm^2
 4. 192.6 m^2 5. 1121.4 in.^2 6. 419.2 cm^2
 7. 324.9 in.^2 8. 162 cm^2 9. 37.6 m^2 10. 30.1 mi^2
 11. 55.4 km^2 12. 357.6 in.^2 13. 9.7 mm^2
 14. 384.0 in.^2 15. 54.5 cm^2 16. 9.1 ft^2
 17. 80.9 m^2 18. 83.1 m^2 19. 65.0 ft^2 20. 119.3 ft^2
 21. 8 m^2 22. 55.4 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 $\frac{1}{2}$ 6. $\frac{1}{2}$ 7. $\frac{1}{10}x$ or $\frac{1}{10}$ 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 cm^2 4. 55 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

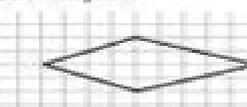
1. Sample:



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

3. Sample: 48 cm^2 4. Check students' work.

5. Sample:



6. Sample: diagonals = 4 cm and 9 cm 7. Sample: 18 cm^2

8. Check students' work. 9. 144 ft^2 10. 112 in.^2

11. 75 m^2 12. 98.4 cm^2

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**Thirumalaisamy P.
Velavancorresponding**



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