

Unit 17.1

1. radius, radius, diameter, center, chord, circumference, center angle
2. a) 4.6 yd b) 25 m 3. a) 34.54 yd b) 87.92 ft
4. a) $\angle QOP, \angle POB$ b) \overline{QB} c) $\overline{OQ}, \overline{OP}, \overline{OB}$
d) AB, QB e) 0
5. 12 yd 7. a) 213.52 in b) 26.376 ft c) 53.38 mi d) 8.164 km
8. a) 155° b) 80° 9. 91.06 10. yes
11. c 12. 25 m and 50 m 13. 72°

Unit 17.2

1. length 4; width 3 2. 1,296 sq meter 3. 52 feet 4. 128 feet
5. \$288 6. \$147 7. 23 9. 2 meters 10. \$147.2

Unit 17.3

1. a) ABE, AEC, ACD, ABD, EBDC b) A,B,C,D,E
c) $\overline{AB}, \overline{AC}, \overline{ED}, \overline{AE}, \overline{EB}, \overline{BD}, \overline{DC}, \overline{EC}$ 2. 1,0,0 3. 9
4. a) rectangular prism b) cone c) pyramid 5. b
6. a) PQR, TUS b) PQUT, PRST, QRSU c) P, Q, R, S, T, U
d) $\overline{PQ}, \overline{QR}, \overline{RP}, \overline{PT}, \overline{RS}, \overline{QU}, \overline{UT}, \overline{TS}, \overline{US}$ 7. cube, rectangular prism
8. cone 9. triangular prism 10. c

Unit 17.4

1. a) cone b) cylinder c) square pyramid d) cube
3. b 4. 6 5. 4 6. yes
7. 5, 9, 6 8. b

Unit 17.5

1. a) 150 sq ft b) 100 sq yd 3. yes
4. a) 142 sq ft b) 336 m^2 c) 88 sq in 5. 83 sq ft
6. 19 ft 7. 258 sq yd 8. 972 sq ft

Unit 17.6

1. 84.78 m 2. 55 yd, 27.5 yd 3. $l=6 \text{ m}, w=6 \text{ m}$
4. 289 sq ft
5. edges; $\overline{AB}, \overline{BC}, \overline{CD}, \overline{DE}, \overline{EA}, \overline{FG}, \overline{GH}, \overline{HI}, \overline{IJ}, \overline{JF}, \overline{AF}, \overline{BG}, \overline{CH}, \overline{DE}, \overline{EJ}$
vertices; A, B, C, D, E, F, G, H, I, J
faces; AEJF, EDIJ, DIHC, HCBG, BGFA, ABCDE, FGHIJ 6. 16, 24, 10
7. 2
8. a) hexagonal pyramid b) rectangular prism
9. 718 sq yd
10. 726 sq ft
12. 2, 4