

Unit 23.1

1. a) 27 ft b) 23 yd c) 36 m d) 28 in e) 46 cm f) 22 m
2. a) 36 yd b) 60 ft c) 100 cm d) 42 ft 3. a) 18 m; 2 m
b) $x=9$ yd; $y=21$ yd; 76 yd 4. 93 cm 5. b 7. 20.1 m
8. a) $x=5.2$ in b) $y=7.9$ cm

Unit 23.2

1. a) 153 m^2 b) 540 ft^2 2. a) 626 cm^2 b) 576 in^2 c) 539.4 in^2 d) 510 cm^2
3. 675 m^2 4. 15 m 5. 149 ft^2 6. 109 ft^2 7. c) 8. 361 sq yd

Unit 23.3

1. a) 180 sq ft b) 84 m^2 c) 30 cm^2 d) 253 m^2 e) 216 ft^2
f) 112.5 sq mm g) 300 cm^2 h) 525 yd^2 2. 960 sq ft 3. 36 cm
4. 7.7 ft^2 5. c 6. 45 m 7. 330 sq ft; 165 sq ft

Unit 23.4

1. a) 78.5 cm b) 94.2 yd c) 84.78 in d) 59.66 e) 135.02 yd f) 84.78 ft
2. a) 109.9 ft b) 109.9 c) 94.2 ft d) 5.024 km e) 36.11 ft f) 47.1 yd
3. 1.75 yd 4. 3.5 yd; 21.98 yd 5. 2.70 in; 5.4 in 6. 15.7 cm
7. 1 m; 2 m 8. 252 meters 9. c

Unit 23.5

1. a) $1,017 \text{ cm}^2$ b) 75 m^2 c) 25 in^2 d) 6 m^2
2. a) 10 sq yd b) 14 sq ft
3. 1384.74 m^2 4. no 5. 31.15 ft^2

Unit 23.6

1. a) yes b) no c) no d) yes e) no f) no
3. no

Unit 23.7

2. 124.9 ft
3. 6,859 sq yd
4. 80 ft; 378 ft
7. a) about 266 sq ft b) about 48 sq yd
8. 4578.12 m^2
10. 25 sq unit