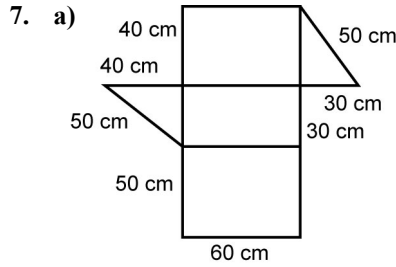


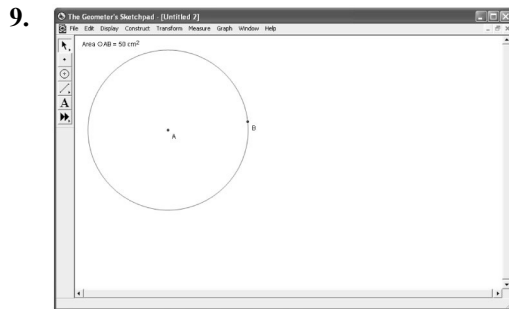
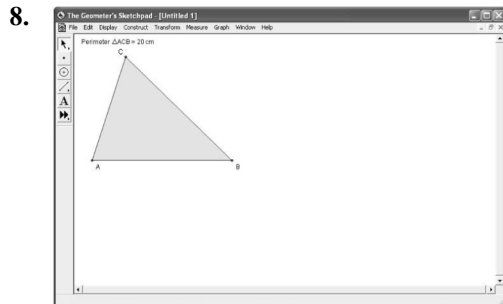
BLM Answers

BLM 8.GR.1 Practice: Get Ready

- 14.2 cm
 - 10.2 cm
 - 18.4 m
 - 29.4 m
 - 37.5 cm
 - 21.6 m
- 16.7 cm
 - 20.1 m
 - 25.8 cm
 - 20.4 cm
- 16.3 m
- 10.1 cm^2
 - 76.9 m^2
 - 69.4 m^2
 - 3.9 cm^2
- 534.1 cm^2
 - 32 cm^2
- 942.5 cm^3
 - 12 cm^3



- 8400 cm^2
- $36\,000 \text{ cm}^3$

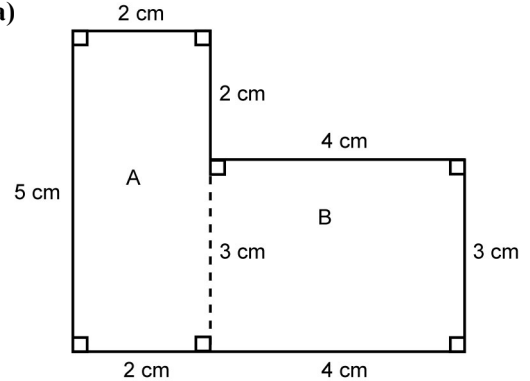


BLM 8.1.1 Practice: Apply the Pythagorean Theorem

- 25 m
 - 26 cm
 - 4.2 cm
 - 2.7 cm
- 9 m
 - 10 cm
 - 7.4 cm
 - 11.1 cm
- 4 cm
 - 41.2 cm
 - 17.3 cm
 - 2.5 cm
- 96 cm^2
 - 30 cm^2
 - 6.25 cm^2
- AB: 7.6 units; CD: 9.4 units; EF: 9.2 units

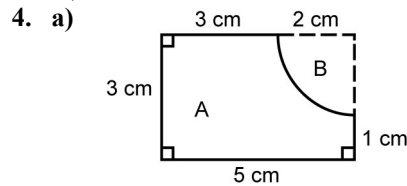
BLM 8.2.1 Practice: Perimeter and Area of Composite Figures

- $x = 2.8 \text{ cm}$
 - $x = 40 \text{ cm}; y = 22 \text{ cm}$
 - $x = y = 56.4 \text{ cm}$
 - $x = 3.3 \text{ cm}; y = 5.5 \text{ cm}$
 - $x = 2.7 \text{ m}$
 - $x = 17.1 \text{ cm}; y = 7.2 \text{ cm}$
- 12.8 cm
 - 174 cm
 - 312.8 cm
 - 30.4 cm
 - 14 m
 - 61.2 cm
- a)



- Area of rectangle A = 10 cm^2 ; Area of rectangle B = 12 cm^2

- 22 cm^2



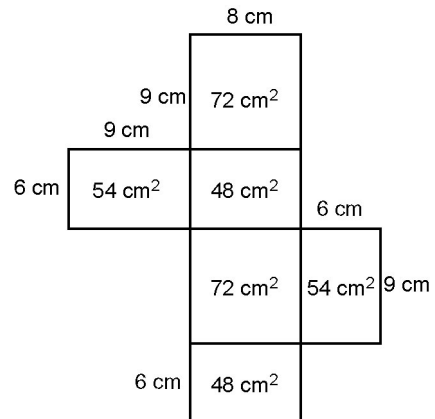
- Area of rectangle A = 15 cm^2 ; Area of quarter circle B = 3.1 cm^2

- 11.9 cm^2

- 108 cm^2
 - 1306.9 cm^2
 - 52 cm^2
 - 646.6 cm^2

BLM 8.3.3 Practice: Surface Area and Volume of Prisms and Pyramids

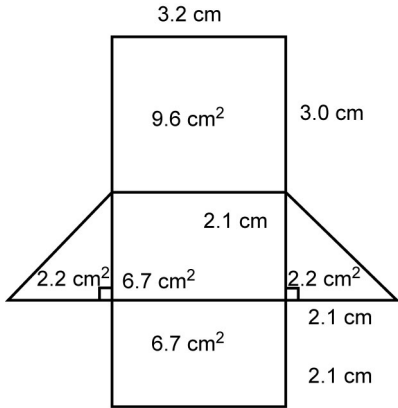
- a)



348 cm^2

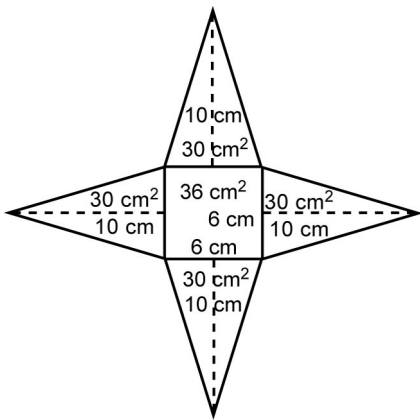
BLM Answers

b)



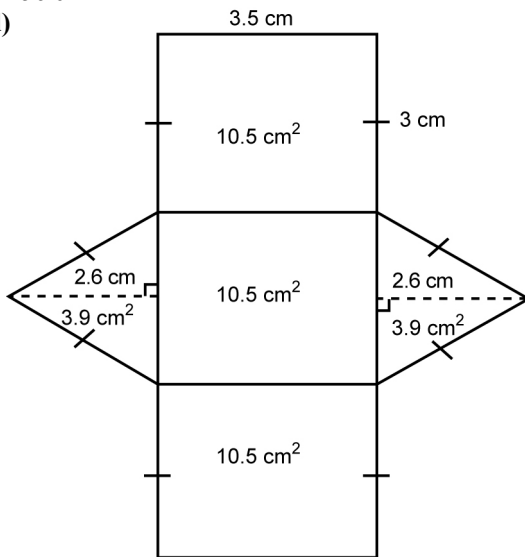
27.4 cm²

c)



156 cm²

d)



39.3 cm²

2. a) 294 cm² b) 68 cm²
c) 34.8 cm² d) 30.2 cm²
3. a) 600 cm³ b) 32 cm³
c) 162 cm³ d) 60 cm³
e) 96 cm³ f) 245 cm³
4. 7 cm
5. a) 12 cm b) 11 cm

BLM 8.4.1 Practice: Surface Area of a Cone

1. a) 3141.6 cm² b) 339.3 cm²
c) 160.2 cm² d) 820 cm²
e) 373.8 cm² f) 15.7 cm²
2. a) 26 cm; 1131 cm² b) 5 cm; 75.4 cm²
c) 3.6 cm; 35.2 cm² d) 11.7 cm; 197.3 cm²
3. a) both are 8.6 cm
b) Cone A: 213.6 cm²; Cone B: 343.1 cm²
c) Cone B has greater radius. Both terms in the formula have radius as a factor, so the radius "counts" for more.
4. No; Cone A: 113.1 cm²; Cone B: 175.9 cm²
5. 301.6 cm²

BLM 8.5.1 Practice: Volume of a Cone

1. a) 4 cm b) 3.5 cm
c) 12 cm d) 4.9 cm
2. a) 37.7 cm³ b) 14.7 cm³
c) 314.2 cm³ d) 128.3 cm³
3. a) 134 cm³ b) 183.3 cm³
c) 20.9 cm³ d) 84.8 cm³
4. a) 9.2 cm³ b) 268.1 cm³
c) 77 cm³ d) 226.7 cm³
5. 7 cm
6. 9 cm

BLM 8.6.1 Practice: Surface Area of a Sphere

1. a) 804.2 cm² b) 1017.9 cm²
c) 12.6 cm² d) 5541.8 cm²
2. a) 78.5 cm² b) 254.5 cm²
c) 1809.6 cm² d) 380.1 cm²
3. a) 2 cm b) 6 cm
c) 1.8 cm d) 4 cm
4. a) 615.8 cm² b) 1231.6 cm²
c) 9.9 cm

BLM 8.7.1 Practice: Volume of a Sphere

1. a) 268.1 cm³ b) 179.6 cm³
c) 4188.8 cm³ d) 3053.6 cm³
2. a) 696.9 cm³ b) 268.1 cm³
c) 179.6 cm³ d) 523.6 cm³
3. a) 3 cm b) 5 cm
c) 1.2 cm d) 2.6 cm
4. a) 3053.6 cm³ b) 5832 cm³
c) 2778.4 cm³
5. a) 523.6 cm³ b) 261.8 cm³
c) 4 cm

BLM 8.CR.1 Chapter 8 Review

1. a) 5.1 cm b) 3.0 cm
2. 7.1 cm²

BLM Answers

3. a) Perimeter: 67.3 cm; Area: 160 cm^2
b) Perimeter: 21.4 m; Area: 25.4 m^2
4. 64 m^2
5. a) Surface area: 360 cm^2 ; Volume: 400 cm^3
b) Surface area: 220.5 cm^2 ; Volume: 162 cm^3
6. a) 15 cm b) 12 cm
7. a) 178.1 cm^2 b) 43.4 cm^2
8. 45.8 cm^2
9. a) 66 cm^3 b) 2513.3 cm^3
10. 883.6 cm^3
11. a) 530.9 cm^2 b) 326.9 cm^2
12. 13 cm
13. a) 4.2 cm^3 b) 33.5 cm^3
14. The hemisphere has volume 3619.1 cm^3 , the sphere has volume 2144.7 cm^3 . The hemisphere has greater volume.

BLM 8.PT.1 Chapter 8 Practice Test

1. C
2. A
3. D
4. B
5. B
6. a) Surface area: 151.6 cm^2 ; Volume: 117.3 cm^3
b) Surface area: 184 cm^2 ; Volume: 120 cm^3
7. 25.1 cm^3
8. a) $18\,225 \text{ cm}^3$ b) 5670 cm^2
c) 8682.4 cm^3

BLM 8.CT.1 Chapter 8 Test

1. D
2. B
3. C
4. D
5. A
6. a) Surface area: 435.8 cm^2 ; Volume: 382.7 cm^3
b) Surface area: 416 cm^2 ; Volume: 480 cm^3
7. Perimeter: 24.1 cm; Area: 27.8 cm^2
8. 14.1 cm^3
9. a) 1728 cm^3 b) 864 cm^2
c) 823.2 cm^3