MathLinks 8 Practice and Homework Book
Chapter 5 Answers

5 Get Ready

1. a) rectangular prism; 6; 12; 8
b) trangular prism; 5; 9; 6
c) cube; 6; 12; 8

2. a) 22.0 cm **b)** 12.6 cm^2

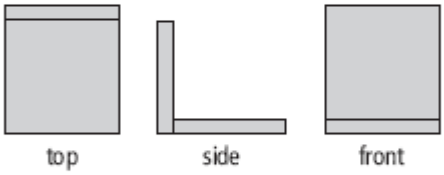
3. a) 16.5 cm^2 **b)** 50 cm^2 **c)** 30 cm^2

5.1 Views of Three-Dimensional Objects

1. a) three, 3-D
b) top, front, side, draw, build, 3-D

2. top, side, front

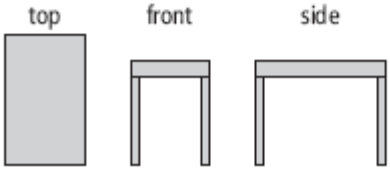
3.



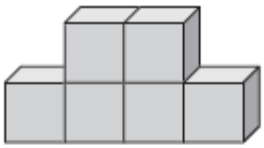
4. a)

b)

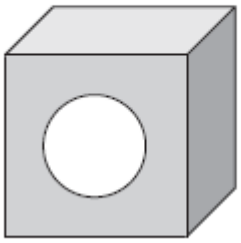
5.



6. a)



b)



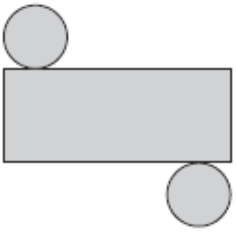
7. top: A; front: C; side: E

5.2 Nets of Three-Dimensional Objects

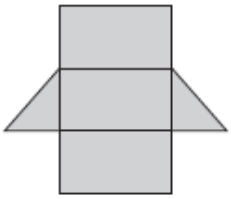
1. a) net **b)** 3-D object

2. Nets may vary. Example:

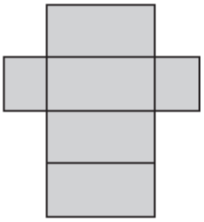
a)



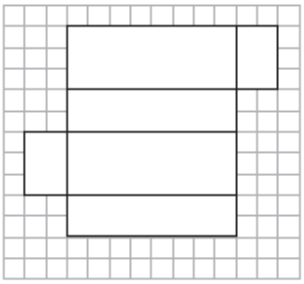
b)



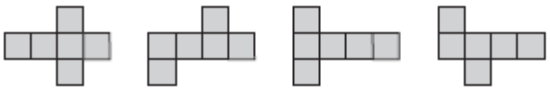
c)



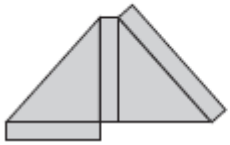
3. Nets may vary. Example:



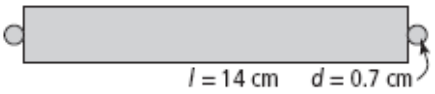
4. Make sure all results fold into a cube.
Answers will vary; here are examples:



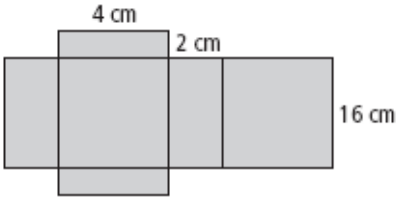
5. Answers will vary; here is an example:



6. a)



b) Nets may vary. Example: This box will have extra room around the pencils.



5.3 Surface Area of a Prism

1. face, surface area
2. a) 220.6 cm^2 **b)** 451.2 cm^2
3. a) 120 m^2 **b)** 140.1 m^2
4. 3.13 m^2
5. 124.5 m^2
6. a) 7.74 m^2 **b)** $193.11

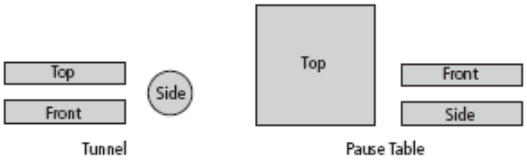
5.4 Surface Area of a Cylinder

1. a) add, area **b)** cylinder **c)** circumference
2. Nets may vary. Example:

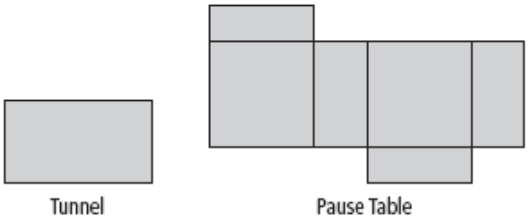
3. a) 1800 cm^2 **b)** 54 mm^2
4. 52.99 cm^2
5. a) 505.54 mm^2 **b)** 469.82 km^2
6. a) 229.8 cm^2
b) Answers may vary. The following is based on a container of 5.5 cm high and 13 cm in diameter (to give a little extra room in the container): 489.84 cm^2

5 Link It Together

1.



2. Nets may vary. The net for the tunnel should not show any ends. Example:



3. Tunnel = 10.36 m^2, Pause Table = 3.64 m^2

5 Vocabulary Link

Across

4. rectangular prism
6. triangular prism

Down

1. surface area
2. cylinder
3. prisms
5. net