Name: _____   Date: _____
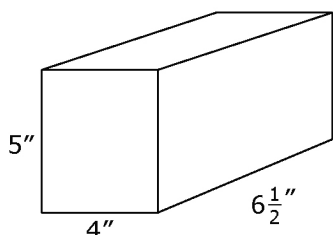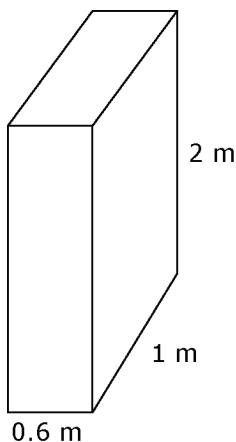
Section 3.4 Extra Practice

1. Calculate the surface area of each object. Round each answer to the nearest tenth of a square unit.
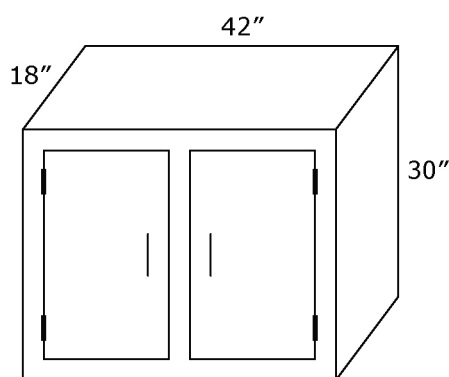
a)

5″   4″ $6\frac{1}{2}″$

b)

2 m   1 m   0.6 m

2. Grace is staining a wall cabinet with two doors.

42″   18″   30″

a) Consider the front of the cabinet to be one surface. How many surfaces will Grace need to stain?

b) Calculate the surface area of the cabinet to be stained, in square inches.

c) Convert the dimensions of the cabinet to feet.

d) Calculate the surface area of the cabinet to be stained in square feet. Round your answer to the nearest tenth of a square foot.

3. A box for a bracelet has dimensions 50 mm by 45 mm by 40 mm. It is being shipped in a box measuring 12 cm by 15 cm by 10 cm.

10 cm   15 cm   12 cm
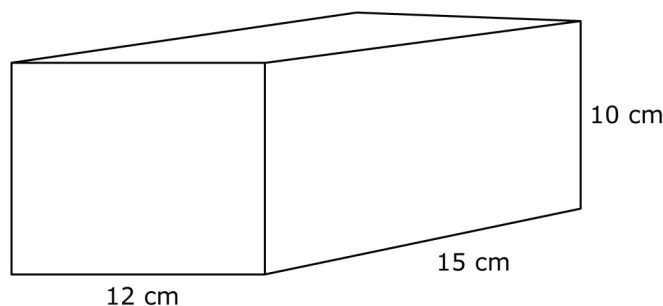
a) Convert the dimensions of the bracelet box to centimetres.

b) Calculate the surface area of the bracelet box in square centimetres.

c) Calculate the surface area of the shipping box in square centimetres.

d) How many times greater is the surface area of the shipping box than the surface area of the bracelet box? Express the answer to the nearest whole number.
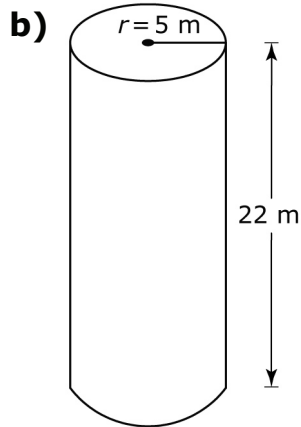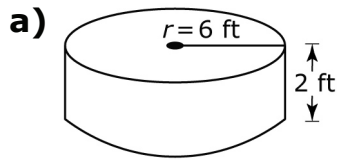
4. Calculate the surface area of each cylinder to the nearest square unit.

   a)

   $r = 6$ ft

   2 ft

   b)

   $r = 5$ m

   22 m

5. One roll of painter's tape has a radius of 50 mm and is 25 mm wide. Five rolls are packaged together in a plastic cylinder. Calculate the surface area of the plastic cylinder packaging in square centimetres. Show all your work.