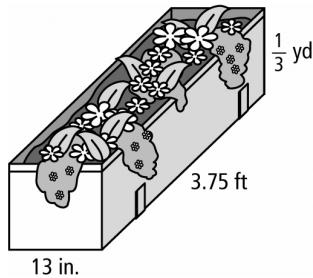


Chapter 2 Warm-Up

Section 2.1 Warm-Up

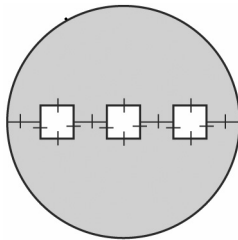
- Ed wants to put siding on a storage building. He measures the outside walls and records wall lengths 0.0238 km and 0.0179 km.
 - Explain why kilometres is not an appropriate measurement unit for Ed's purpose.
 - Rewrite the measurements using appropriate metric units.
- Jaspreet wants to build a flower box with the following dimensions. First, she needs to convert all measurements to the same units.
- Teresa wants to install a countertop on an island in her kitchen. The dimensions of the island are 180.3 cm by 101.6 cm. Explain how she could estimate the cost if granite costs \$75 per square foot.
- Explain why area is always expressed in square units.
- Define volume in your own words.



- What imperial units do you recommend? Explain why.
- Convert all the measurements to the same units. Explain how you did each conversion.

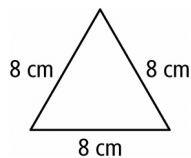
Section 2.2 Warm-Up

- Convert the following to the indicated equivalents. Justify each answer.
 - an area that is 3 m by 3 m to cm^2
 - an area that is 1 ft by 1 ft to in.^2
- A drum has a circumference of 47 in. What is the surface area of the top of the drum, to the nearest whole number?
- A farmer has 36 m of fencing, all in 1 m sections. If he does not cut any of the sections, what are the dimensions of all the different rectangular sheep pens he can make?
 - Which dimensions will give the biggest area?
- Explain how to find the area of the shaded portion of the circle.

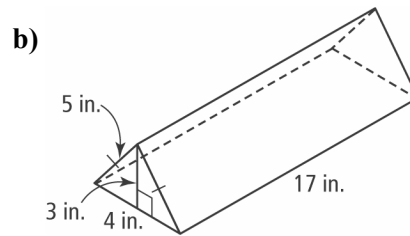
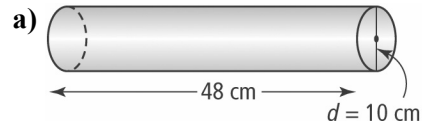


Section 2.3 Warm-Up

- Explain why volume is measured in cubic units.
- Convert 1 m^3 to cm^3 . Justify your answer.
- Calculate the height of the triangle to the nearest tenth. Explain your answer.



- Draw the net for each 3-D object. Label all the dimensions.



- Use the formula $SA = \frac{1}{2} h(a + b)$ to determine the height of a trapezoid with area 21.9 cm^2 and parallel side lengths 4.5 cm and 2.8 cm.
Hint: Draw a diagram.
- What strategy would you use to find the volume of this composite 3-D object if the dimensions were given?

