Warm-Ups 12.1 & 12.2 (Monday)

Find the volume and the total surface area of the solid in terms of the given variable.

1.

*x*

*2x*

*5x*

*3x*

*4x*

2. Find the volume of a regular hexagonal pyramid with height 8 cm and base edges 6 cm.

Warm-Ups 12.3 (Tuesday)

1. A manufacturer needs to decide which container to use for packaging a product. One container is twice as wide as another but only half as tall. Which container holds more, or do they hold the same amount? Guess first and then calculate the ratio of their volumes.

2. A pipe is 2 m long and has inside radius 5 cm and outside radius 6 cm. Find the volume of metal contained in the pipe to the nearest cubic centimeter. Use π ≈ 3.14.

Warm-Ups 12.4 (Wednesday)

1. A scoop of ice cream with diameter 6 cm is placed in an ice-cream cone with diameter 5 cm and height 12 cm. Is the cone big enough to hold all the ice cream if it melts?

2. About two cans of paint are needed to cover the hemispherical dome of the silo shown. Approximately how many cans are needed to paint the rest of the silo’s exterior?

20 m

10 m