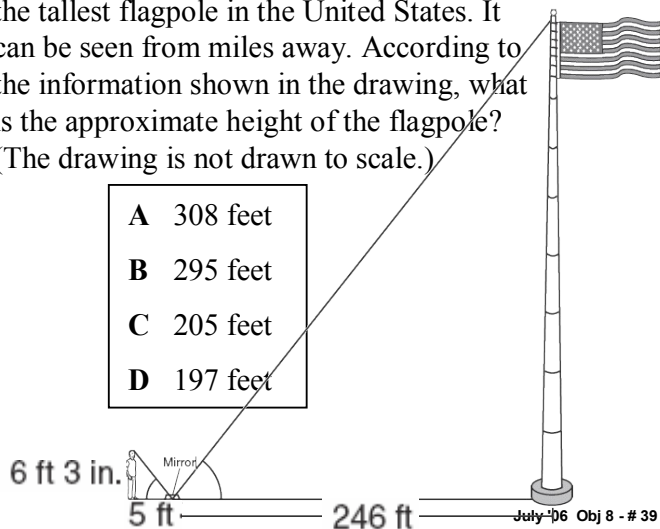


Objective 8 - Page 2 of 6

In 2002, people in Laredo, Texas, erected the tallest flagpole in the United States. It can be seen from miles away. According to the information shown in the drawing, what is the approximate height of the flagpole? (The drawing is not drawn to scale.)

- A 308 feet
- B 295 feet
- C 205 feet
- D 197 feet

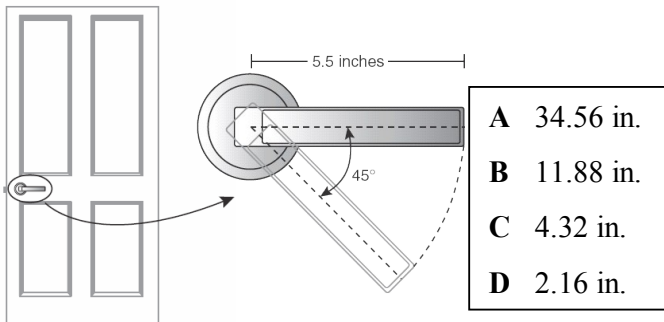


Mr. Kelly's company manufactures a cylindrical soup can that has a diameter of 6 inches and a volume of 226 cubic inches. If the diameter stays the same and the height is doubled, what will happen to the can's volume?

- A It will remain the same.
- B It will double.
- C It will triple.
- D It will quadruple.

April '06 Obj 8 - # 3

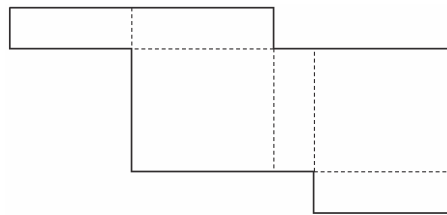
Look at the diagram below. When the door handle is pushed down to open the door, it makes a  $45^\circ$  angle with its former position. What is the approximate arc length of the path traveled by the outside end of the door handle when the handle is pushed down?



- A 34.56 in.
- B 11.88 in.
- C 4.32 in.
- D 2.16 in.

July '06 Obj 8 - # 45

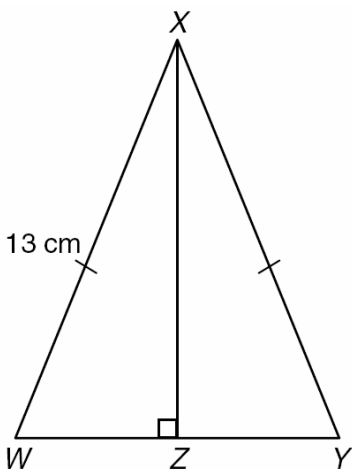
Jackie made a rectangular prism to hold her earrings. The net of the rectangular prism is shown below. Use the ruler on the Mathematics Chart to measure the dimensions of the rectangular prism to the nearest  $\frac{1}{4}$  inch. Which is closest to the volume of this rectangular prism?



- F 4 in.<sup>3</sup>
- G 1.3 in.<sup>3</sup>
- H 8.5 in.<sup>3</sup>
- J 13.5 in.<sup>3</sup>

April '06 Obj 8 - # 20

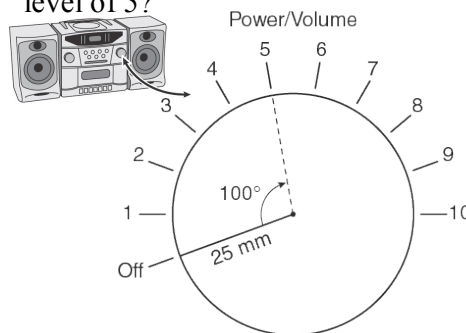
$\triangle WXY$  is isosceles.  $\overline{WY}$  is 10 centimeters long. Find the length of  $\overline{XZ}$ .



- F 5 cm
- G 10 cm
- H 12 cm
- J 13 cm

April '06 Obj 8 - # 2

A diagram of a power/volume control knob on a stereo is shown below. When the stereo is turned on and the knob is turned to a volume level of 5, the knob is rotated  $100^\circ$  from its off position. What is the approximate arc length of the path traveled by the knob's rotation from the off position to a volume level of 5?



- F 545 mm
- G 157 mm
- H 22 mm
- J 44 mm

April '06 Obj 8 - # 22