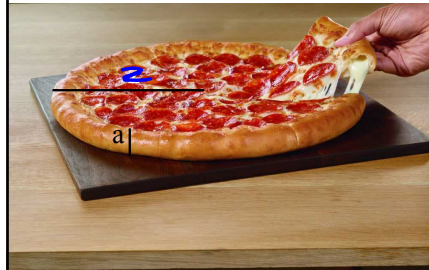


Plan for the Day: Find the volume of the following object. Leave in terms of π .



Plan for the Day: Get new weekly homework
 Integer quiz (if needed)
 Perimeter review
 Objective: We will be able to find the perimeter of three-dimensional figures.
 Happy Birthday to Lorin Bastardo!!

Find the volume below.



$$V = Bh$$

$$V = \pi r^2 h$$

$$V = \pi \cdot z^2 \cdot a$$

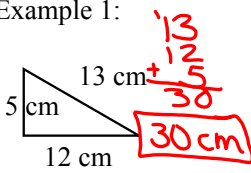
$$V = \pi \cdot z \cdot z \cdot a$$

$$V = \pi \cdot z \cdot z \cdot a$$

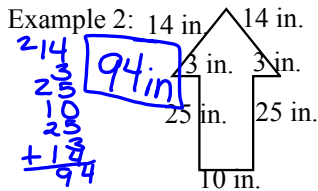
Perimeter is the distance around an object.

To find the perimeter for any polygon, add up the lengths of all the sides.

Example 1:



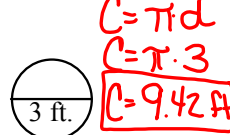
Example 2:



For a circle, the perimeter is called the circumference.

Circumference = π * diameter or $C = 2 * \pi * r$

Example 3:



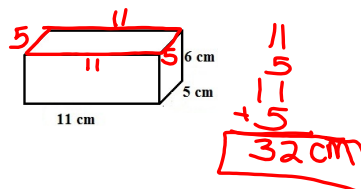
Example 4:



We can find the perimeter of the bases of three-dimensional figures using the same skills we do for a two-dimensional figures.

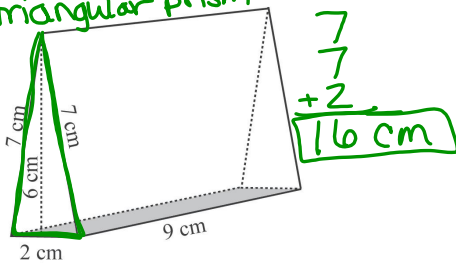
To do this, identify the base and then find the perimeter.

Example 5: Find the perimeter of the base.



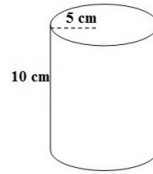
Example 6: Find the perimeter of the base.

triangular prism



Example 7: Find the perimeter of the base.

Circumference



$$C = 2\pi r$$

$$C = 2 \cdot \pi \cdot 5$$

$$C = 10\pi$$

$$C = 31.4 \text{ cm}$$