

What do you get when a bunch of sheep stand in a circle? *Shepherds Pi*

Why should you never talk to pi? *it never ends*

What happens when you eat to much pi? *you get a bigger circumference*

What do you get when you take the sun and divide by its diameter? *a pi in the sky*

Farmer Logue built a circular chicken enclosure. If each adult chicken in his flock requires 4 square foot of space, how many chickens can you house?

$$A = \pi r^2$$

$$A = 3.14 (6)^2$$

$$A = 3.14 (36)$$

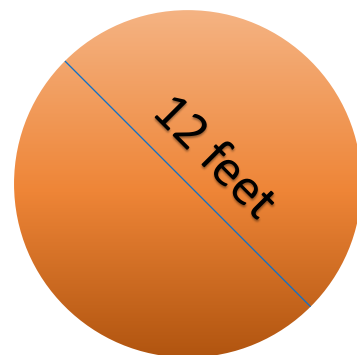
$$A = 113.04 \text{ feet}^2$$

$$\begin{array}{r} 28.26 \\ 4 \overline{) 113.04} \end{array}$$

4 square feet

chickens: 28

the # of chickens ≤ 28



$$\frac{\text{diameter}}{2} = \text{radius}$$

$$\text{diameter} = 12 \text{ feet}$$

$$\frac{12}{2} = \text{radius} = 6$$

Why doesn't anyone talk to circles?

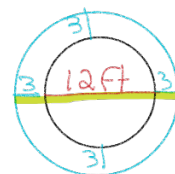
What is wrong with the Equation "pi R Squared"?

Farmer Logue wants to put a fence around the enclosure. He wants the fence always be exactly 3 feet away from the enclosure. How much fence does he need? How many rolls of fencing should he purchase if each roll is 25 feet?

$$C = \pi d$$

$$C = (3.14)(18)$$

$$C = 56.52 \text{ feet}$$



I need at least
3 Rolls

$$\text{diameter fence} =$$

$$3 + 12 + 3 = 18$$

Farmer Logue has a cylindrical food storage barrel. It has a diameter of 2 feet and a height of 4 feet. What is the volume of the cylinder?

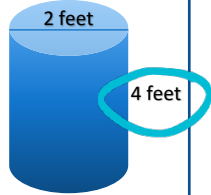
$$V = \text{Area base} \times \text{height}$$

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

$$V = (3.14)(1)(4)$$

$$V = (3.14)(4)$$

$$V = 12.56 \text{ feet}^3$$



diameter =
2 ft
r = 1 ft

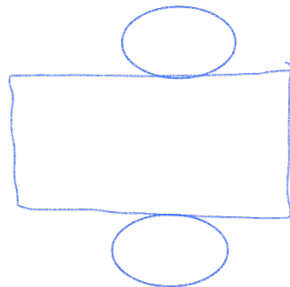
★ Hint: Volume equals the area of the base times the height

What are 3.14% of sailors? Pi-Rates

What did pi say when asked if they could explain what Pi Day was again.

What is the math teacher's favorite snake? Pi-thon

Use this area to draw the net of the cylinder.



Why should you never argue with pi?

Why did pi fail their driver test?

Farmer Logue's favorite color is blue. He wants to buy enough paint to color the surface of the barrel. What is the total surface area of the barrel?

$d = 2$
 $r = 1$

$A_{\text{base}} = \pi r^2 = (3.14)(1)^2 = 3.14$
 (Circumference times height)
 $A_{\text{rectangle}} = \pi d h = (3.14)(2)(4) = (3.14)(8) = 25.12$

$A_{\text{base}} = \pi r^2 = (3.14)(1)^2 = 3.14$

$TSA = 2\pi r^2 + \pi d h$
 $TSA = 3.14 + 3.14 + 25.12 = 31.40 \text{ feet}^2$

Area of both bases
 total (addition)

Area Rectangle
 2 feet
 4 feet

Why shouldn't you let advanced math intimidate you?

