

## What's Going On?

**Checking In**

**Minds on**

Rectangular Based-Pyramids

**Action!**

Surface Area of a Cylinder

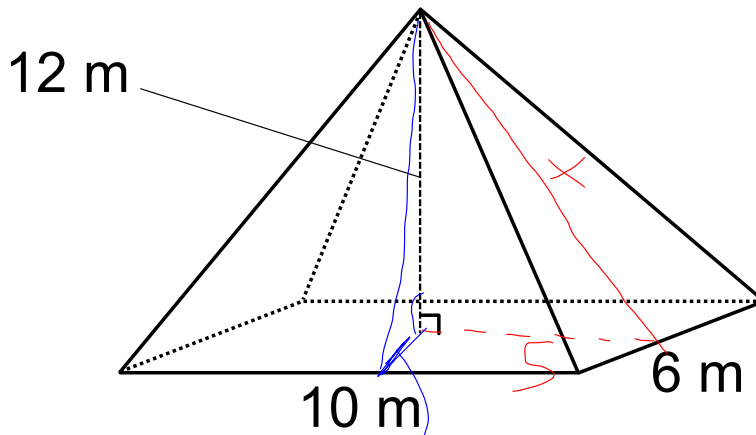
**Consolidation**

A Few More Formulas

**Learning Goal - I will determine the formula for the surface area of a cylinder.**

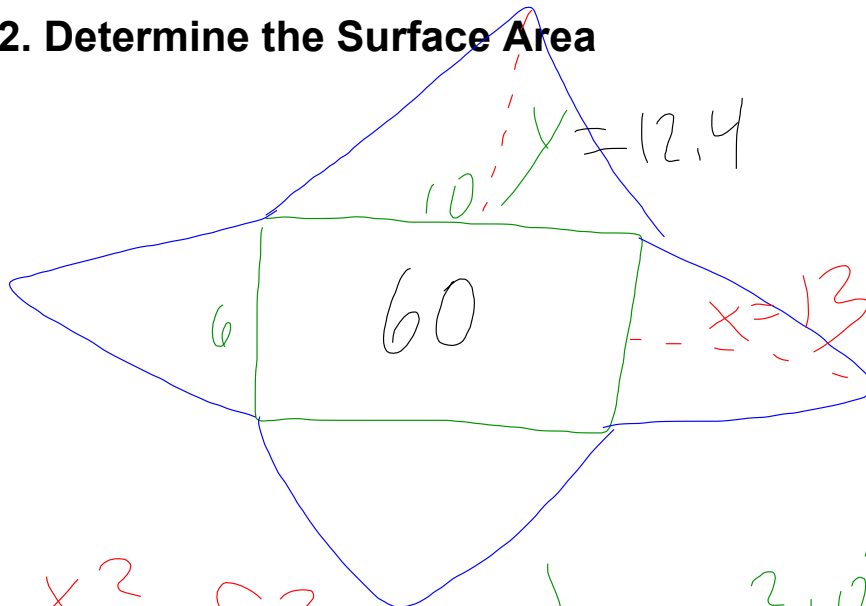
Minds on

Rectangular-Based Pyramid



1. Draw a Net

2. Determine the Surface Area



$$x^2 = 5^2 + 12^2$$

$$x^2 = 25 + 144$$

$$\sqrt{x^2} = \sqrt{169}$$

$$x = 13$$

$$y^2 = 3^2 + 12^2$$

$$y^2 = 9 + 144$$

$$\sqrt{y^2} = \sqrt{153}$$

$$y = 12.4$$

$$\begin{aligned} SA &= 60 + 39 + 39 \\ &\quad + 62 + 62 \\ &= 262 \text{ cm}^2 \end{aligned}$$

$$\begin{aligned} A(\text{triangle}) &= \frac{6 \times 13}{2} \\ &= 39 \end{aligned}$$

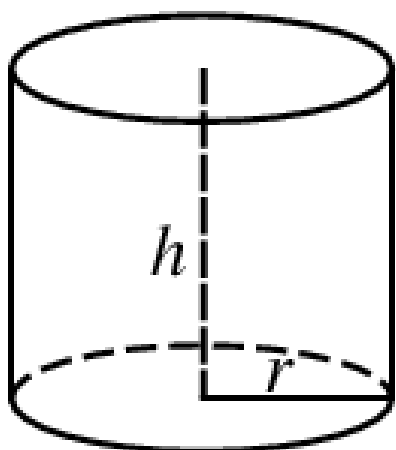
$$\begin{aligned} A(\text{triangle}) &= \frac{10 \times 12.4}{2} \\ &= 62 \end{aligned}$$

 **Minds on**

# Finishing Yesterday's Practice

**Action!**

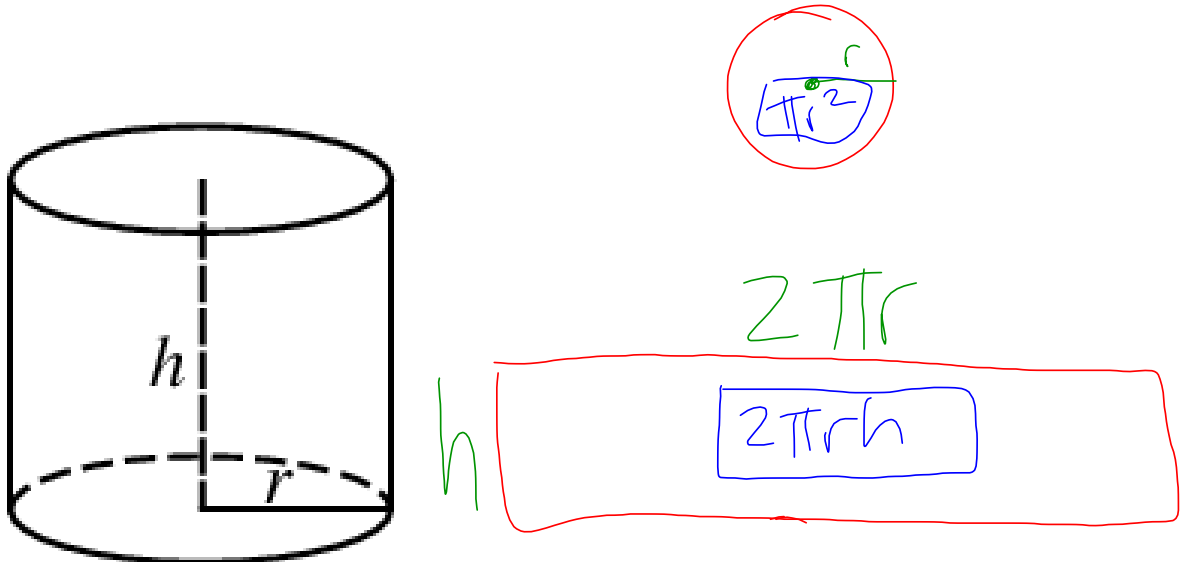
How Many Faces?



3

**Action!**

## Draw Me Unfolded

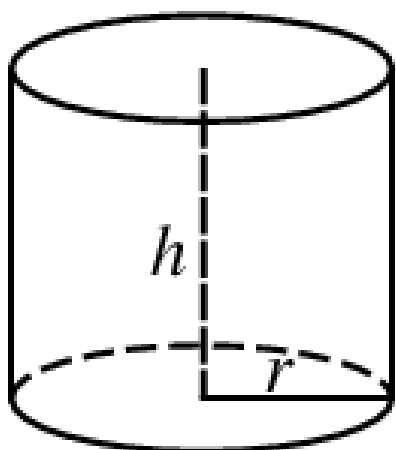


$$SA = \pi r^2 + \pi r^2 + 2\pi r h$$

$$SA = 2\pi r^2 + 2\pi r h$$

**Action!**

# What's my Surface Area?



$$SA = 2\pi r^2 + 2\pi rh$$

