

What's Going On?

Checking In

Minds on

Surface Area Formulas

Action!

Surface Area Formulas Revisited

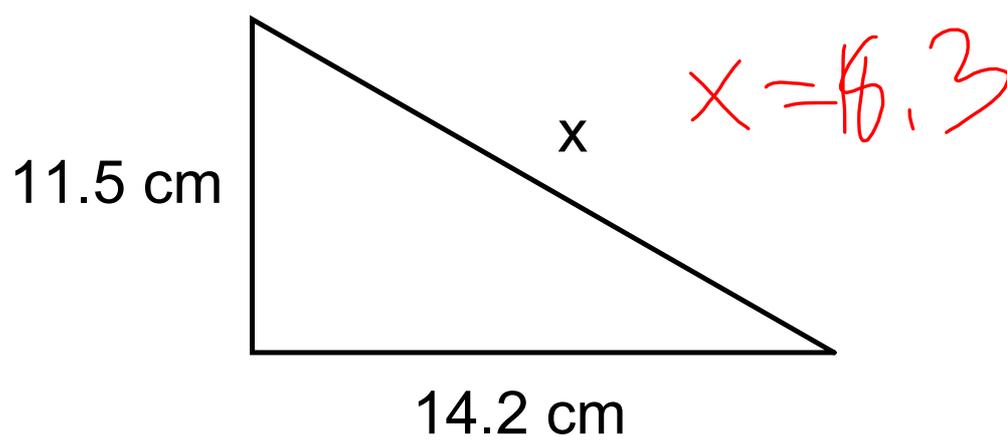
Consolidation

Surface Area 2.0

Learning Goal - I will be able to calculate the surface area of geometric solids and composite figures.

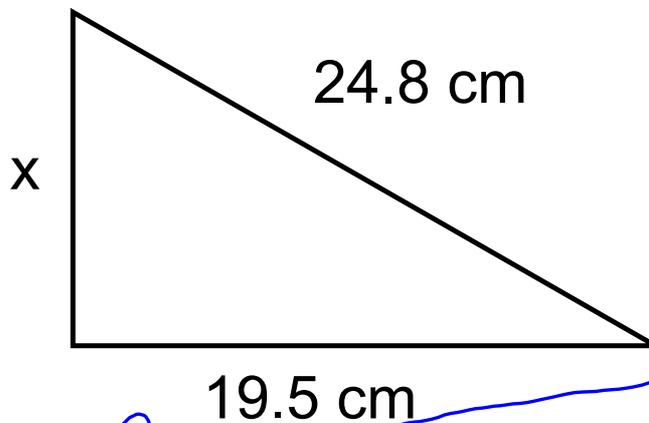
Minds on

What's the Length?



Minds on

What's the Length?



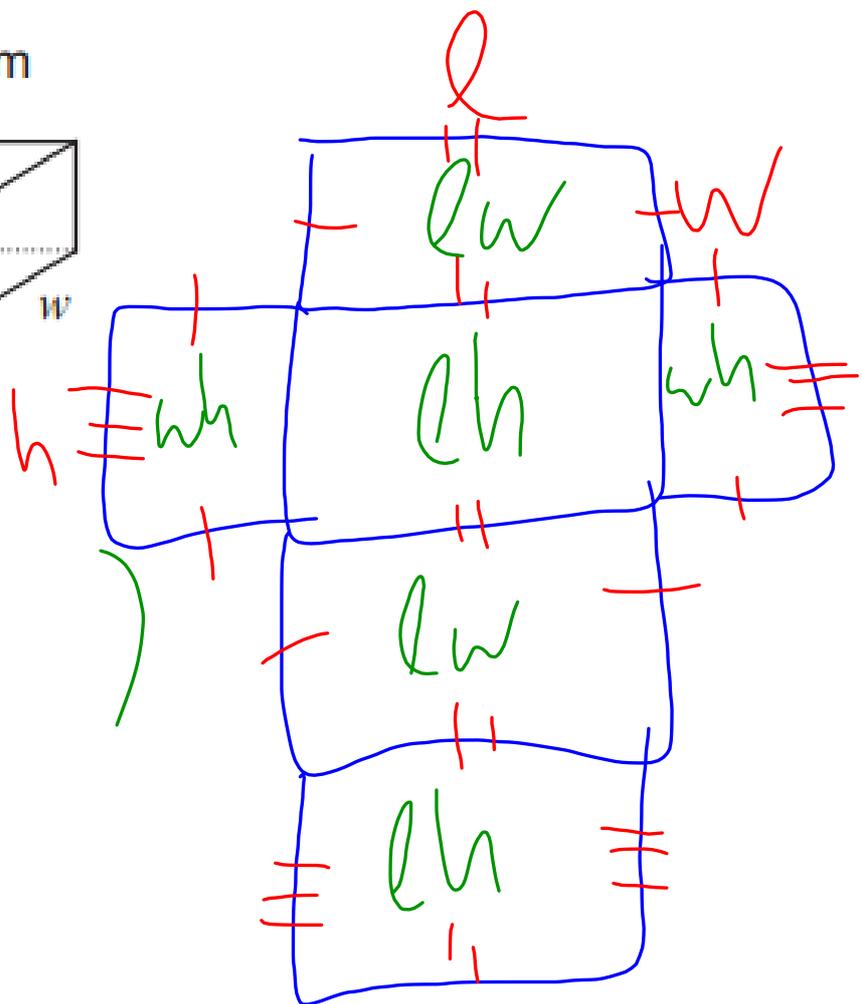
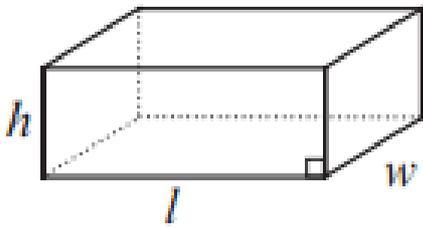
$$x^2 = \sqrt{24.8^2 - 19.5^2}$$

$$x = \sqrt{24.8^2 - 19.5^2}$$
$$x = 15.3 \text{ cm}$$

Minds on

Surface Area Formulas

Rectangular prism

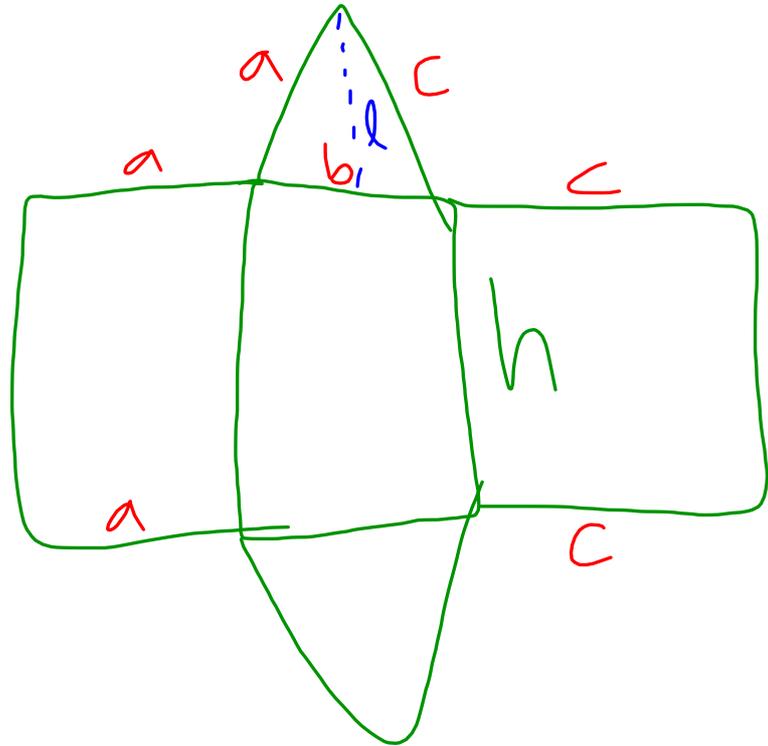
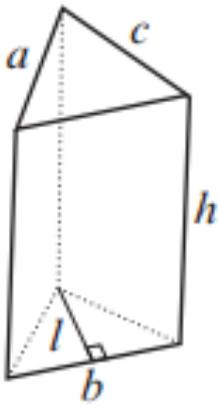


$$2($$

Minds on

Surface Area Formulas

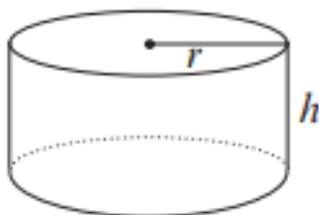
Triangular prism



Minds on

Surface Area Formulas

Cylinder



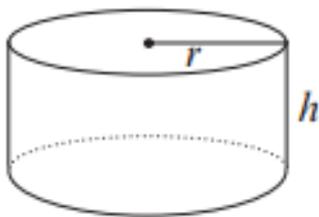
$$\frac{\pi r^2 + \pi r^2}{2\pi r^2}$$

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

Minds on

Surface Area Formulas

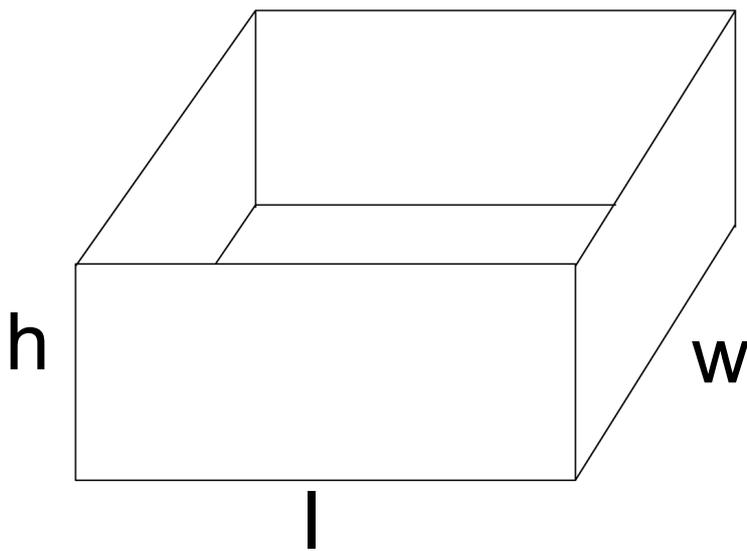
Cylinder



lateral face - surface of a three-dimensional object that is not a base.

Action!

Surface Area Formulas Revisited



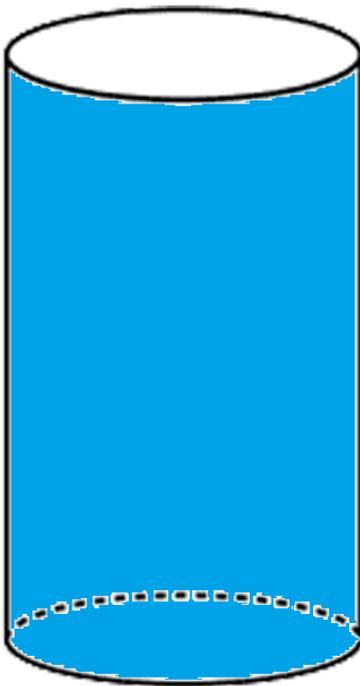
What is the surface area of this topless box?

$$SA = 2(lw + lh + wh) - lw$$

$$SA = 2lw + 2lh + 2wh$$

Action!

Surface Area Formulas Revisited

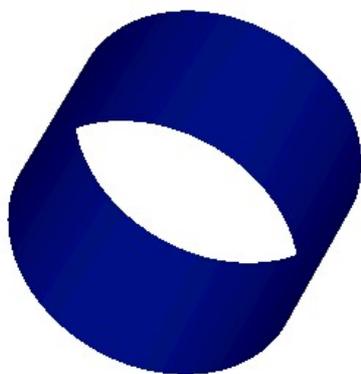


What is the surface area of this cylinder? (no top)

$$SA = \cancel{2\pi r^2} + 2\pi r h$$

Action!

Surface Area Formulas Revisited



What is the surface area of this cylinder? (no top or bottom!)

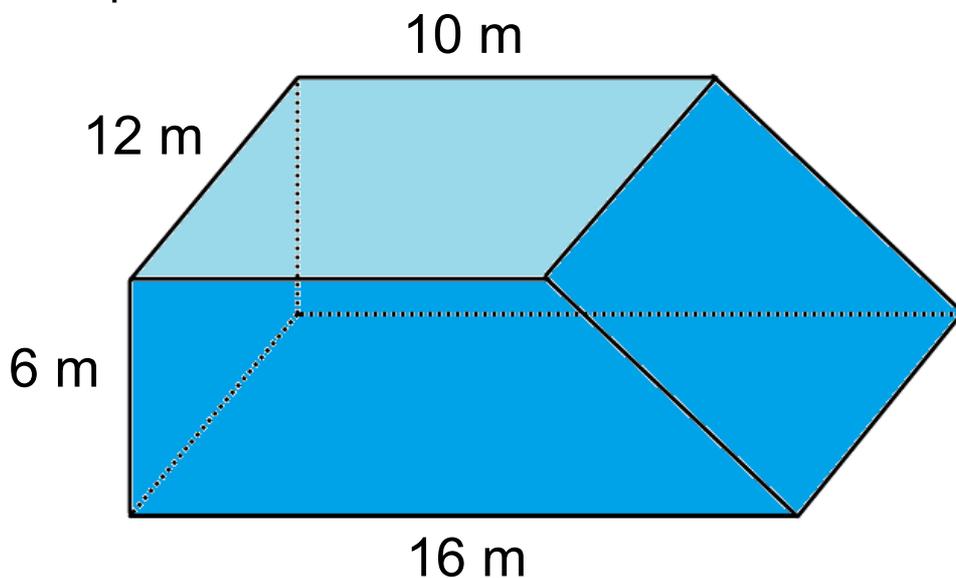
$$SA = \cancel{2\pi r^2} + 2\pi r h$$

Consolidation

Surface Area 2.0

The outside of the object below is going to be painted. Determine the surface area to be painted. Do not include the bottom.

Start by sketching a net diagram including all of the surfaces that will be painted.



Consolidation

Homework

Pg. 32 - 35

3, 5 - 9, 11 - 13

*Want a challenge? Try **any** of the extend problems.

Today: #14 looks good!