### **Curriculum Outcome**

M1 Demonstrate an understanding of the Système International (SI) by describing the relationships of the units for <u>length</u>, area, volume, capacity, mass and temperature.

M2 Demonstrate an understanding of the Imperial system by: describing the relationships of the units for length, area, volume, capacity, mass and temperature.

M3 Solve problems, using SI and Imperial units, that involve linear measurement using estimation and measurement strategies.

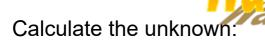
Student Friendly: The relationship between measurement units such as

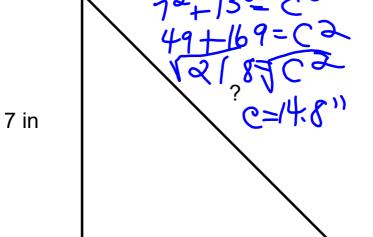
1 m = 1.0936 yd

1 m = 3.2808 ft

1 mi= 1.6093 km

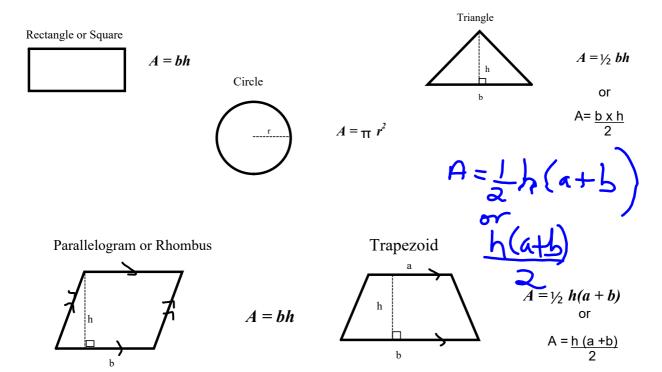
1 in = 2.54 cm





13 in

## AREA Formulas...



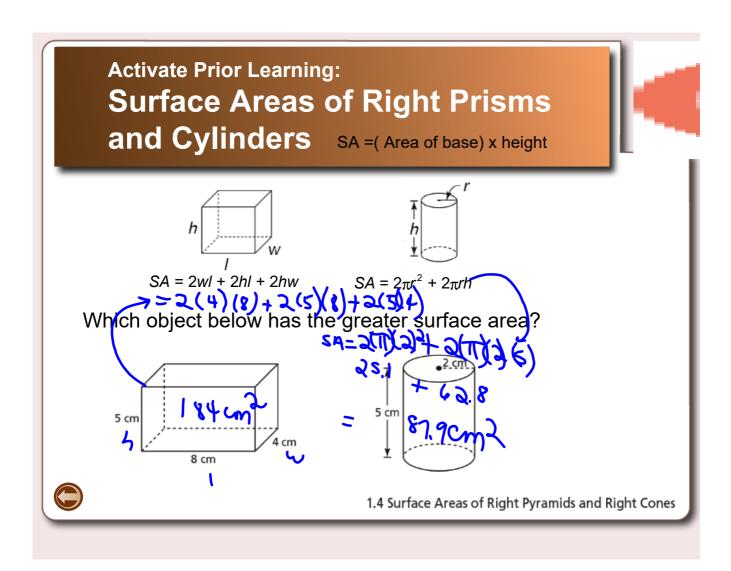
### **Surface Area**

Grade 9 review

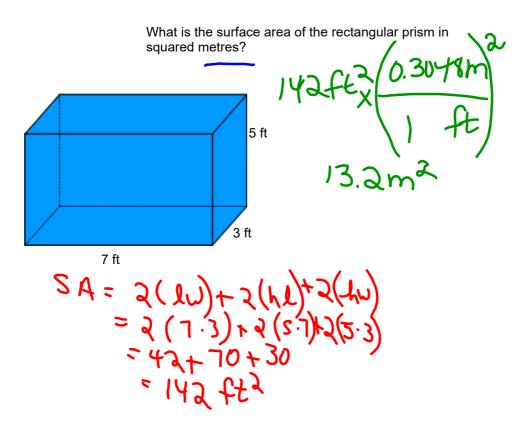
Surface area is the total area of all of the faces of the object.

#### Steps need to find Surface area are:

- 1. Draw all of the faces with dimensions displayed on them.
- 2. Find the area of each face.
- 3. Then add up the areas of all of the faces.



# Surface Area



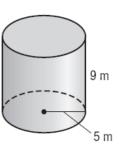
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The surface area S of a cylinder with height h and radius r is the area of the two bases plus the area of the curved surface, or  $S = 2\pi r^2 + 2\pi rh$ .

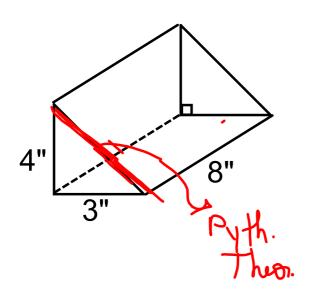
## **EXAMPLE 2** Find the surface area of the cylinder.

Round to the nearest tenth.

 $S = 2\pi r^2 + 2\pi rh$ Surface area of a cylinder r = 5, h = 9



## EXAMPLE #3:



# ANOTHER FORMULA...



What is the surface area in squared centimeters?



Worksheet: Converting Basic Area

Questions

- All Questions

Worksheet: 7-7 Practice Skills

- Circled Questions

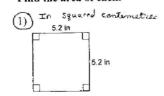
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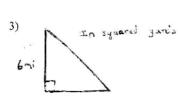
Pre-Algebra

Assignment

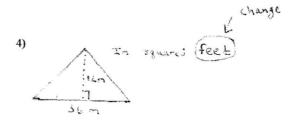
Name\_\_\_\_\_\_\_Date\_\_\_\_\_\_Period\_\_\_\_

Find the area of each.

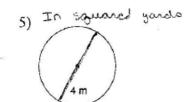


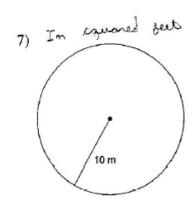


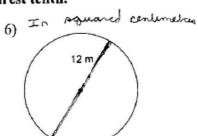
2) In squared inches

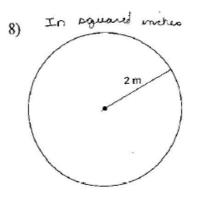


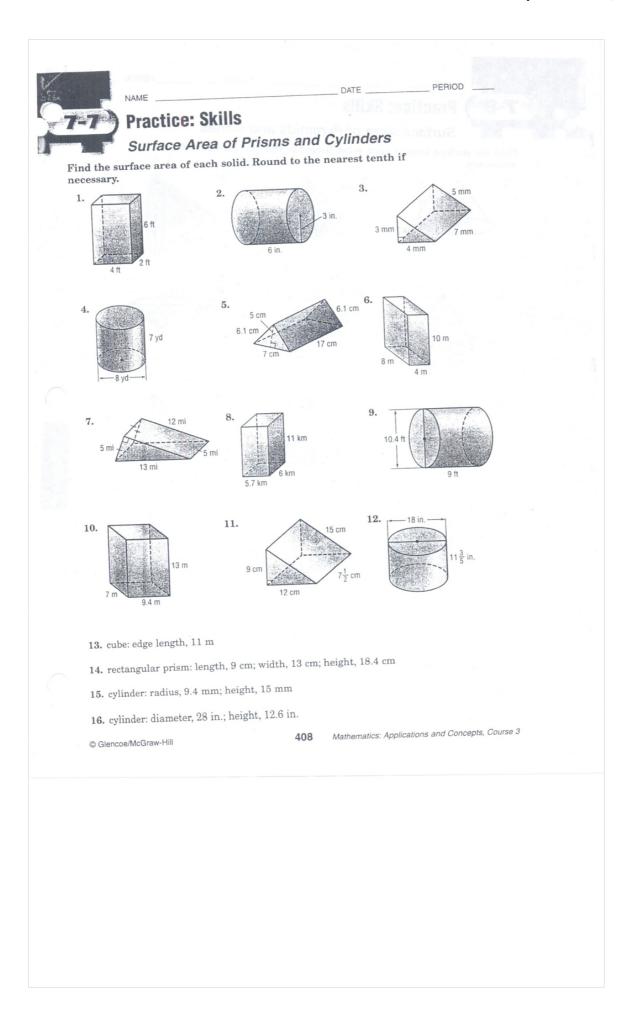
Find the area of each. Round your answer to the nearest tenth.











Worksheet - Surface Area of Prisms and Cylinders.docx Worksheet4\_Basic Area Conversions.pdf