Unit 4: Measuring Prisms and Cylinders

Name :\_\_\_\_\_

4=4.4

## Surface Area - Review

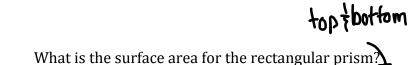
- 1. A cylindrical hot water tank has a diameter of 4.4 m and height 2.1 m.
  - A) What is the surface area of the cylinder?

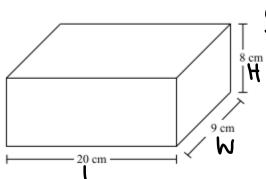
S.A<sub>cylinder</sub> = 
$$[2\pi r^2] + [2\pi rh]$$
=  $[2x3.14x4.84] + [2x3.14x2.2x2.1]$ 
=  $[30.3952] + [29.0136]$ 
=  $59.4088m^3$ 

B) How many cans of paint are needed to paint the hot water tank, if one can of paint covers  $25 \text{ m}^2$ ?

2. What is the area of the curved surface?

$$3 \text{ cm}$$
 =  $3\pi \text{ th}$   
=  $3(3.14)(3)(8)$   
=  $150.12 \text{ cm}^2$ 



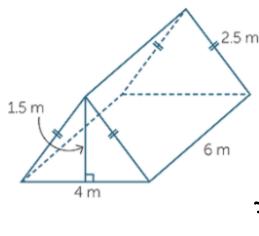


3.

front + back

= 824cm2

4. A rectangular prism building is 50 m by 43 m by 65 m. The building owner wants to paint the 4 walls. What is the surface area to be painted?



triangular prism?

$$SA = \left[2x \text{ Area of }\right] + \left[\begin{array}{c} \text{Area of } \\ \text{RI} \end{array}\right] + \left[\begin{array}{c} \text{Area of } \\ \text{R2} \end{array}\right] + \left[\begin{array}{c} \text{Area of } \\ \text{R3} \end{array}\right]$$

$$= \left[2x \frac{4x1.5}{2}\right] + \left[\begin{array}{c} \text{G} \times 2.5 \end{array}\right] + \left[\begin{array}{$$

$$= (0)m^{2}$$