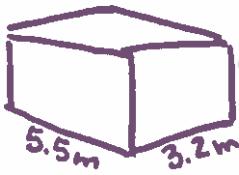


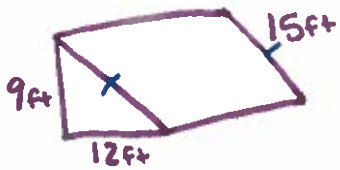
Surface Area Test Review

Name: _____

- 1.) A cereal company needs to know how much material they use per box.



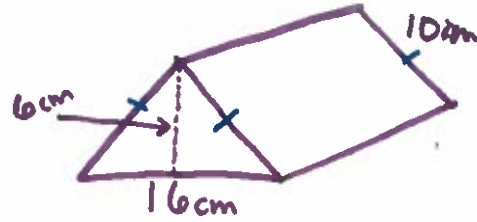
- 3.) Bill wants to paint his skate ramp. How much paint will he need? Make sure to paint the bottom of the ramp as well.



- 5.) How much paint would cover this can?



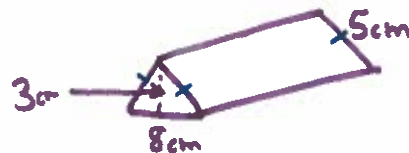
- 2.) The gift below needs to be wrapped. How much paper will be needed?



- 4.) I need to wrap a map that is rolled up in a tube. How much paper will I need?



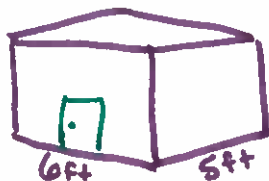
- 6.) The label needs to be changed on this candy bar. The label does not cover the bases.



7.) How much material is needed for a new label on this can of soup?



8.) I just want to paint the lateral surface area of this house. How much paint do I need?

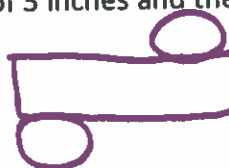


9.) Which answer shows the numbers plugged into the formula correctly to find the total surface area of a rectangular prism?



- a.) $S = (3+4+3)(6) + 2(6 \times 3)$
- b.) $S = (3+4+3+4)(6) + 2(3 \times 4)$
- c.) $S = (3+4+3+4)(4) + 2(3 \times 6)$
- d.) $S = (3+4)(6) \times 2(3 \times 4 / 2)$

10.) Which statement best describes how to find the total surface area of an aluminum can with a diameter of 3 inches and the height of 4.5 inches?

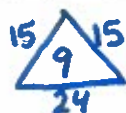


- a.) Find the circumference of the base and multiply by the height.
- b.) Find the circumference of the base and then add twice the area of the base.
- c.) Find the circumference of the base, multiply by the height, and then add twice the area of the base.

11.) Who solved for total surface area of the Triangular Prism correctly?



a.) Sally



$$S = Ph + 2B$$

$$S = 54(11) + 2(216)$$

$$S = 594 + 432$$

$$P = 54$$

$$B = 216$$

$$h = 11$$

$$S = 1026 \text{ in}^2$$

b.) Bill



$$S = Ph + 2B$$

$$S = 48(9) + 2(24)$$

$$S = 432 + 48$$

$$P = 48$$

$$B = 24$$

$$h = 9$$

$$S = 864 \text{ in}^2$$

c.) Tom



$$S = Ph + 2B$$

$$S = 54(11) + 2(108)$$

$$S = 594 + 216$$

$$P = 54$$

$$B = \frac{216}{2} = 108$$

$$h = 11$$

$$S = 810 \text{ in}^2$$