

## HW 6-5

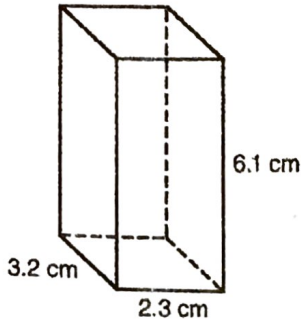
## Int 1

## Surface Area

## Unit 6

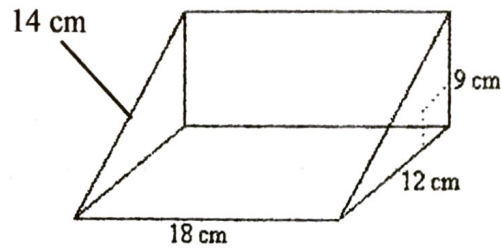
Find the surface area of each solid. Round to the nearest tenth when necessary.

1.

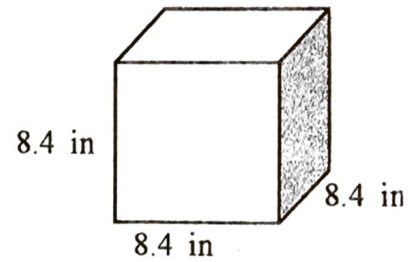


$$81.8 \text{ or } 81.82 \text{ cm}^2$$

2.



3.

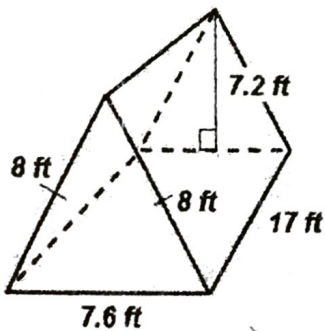


$$423.4 \text{ in}^2$$

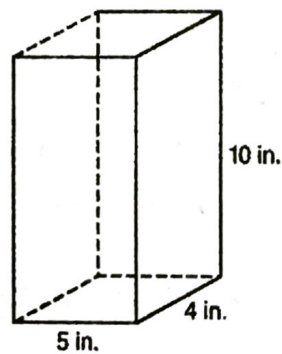
or

$$423.36 \text{ in}^2$$

4.

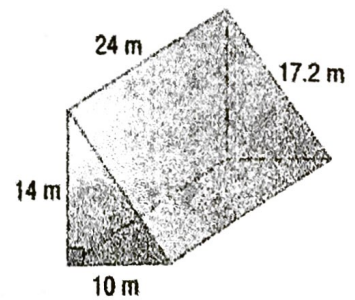


5.



$$220 \text{ in}^2$$

6.



Find the surface area of each solid. Round to the nearest tenth when necessary.

7. The surface area of a rectangular prism is  $108 \text{ ft}^2$ .

What are possible measurements for length, width and height?

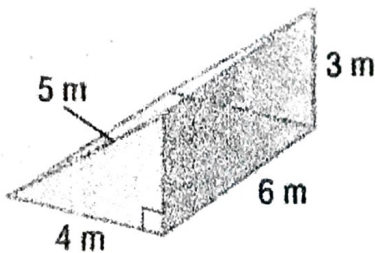
Length = \_\_\_\_\_ Width = \_\_\_\_\_ Height = \_\_\_\_\_

*\* answers may vary \**

8. Cameron worked on finding the area of this triangular prism.

For his answer he said the total surface area for this shape is  $96 \text{ m}^2$ .

Is this correct? Explain.



9. For the surface area of this shape.

Area of the top of the shape =  $45 \text{ cm}^2$

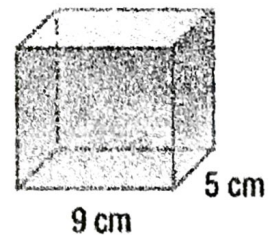
Area of the bottom of the shape =  $45 \text{ cm}^2$

Area of one side =  $40 \text{ cm}^2$

Area of the other side =  $40 \text{ cm}^2$

Area of the front of the shape =  $72 \text{ cm}^2$

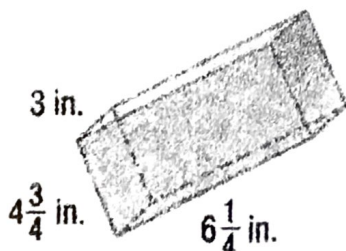
Area of the back of the shape =  $72 \text{ cm}^2$



Using this information what is the height of the shape?

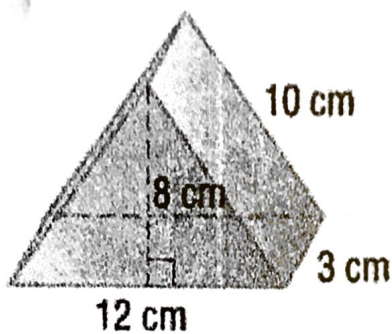
8 cm

10. Kim found the surface area of the following rectangular prism. Once she rounded to the tenths her answer was  $89.1 \text{ in}^2$ . Is this correct? Explain.



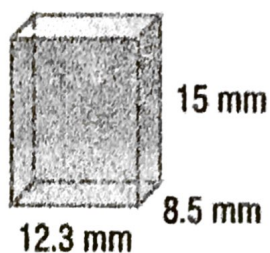
Find the surface area of the following shapes. Round to the nearest tenth when necessary.

11.

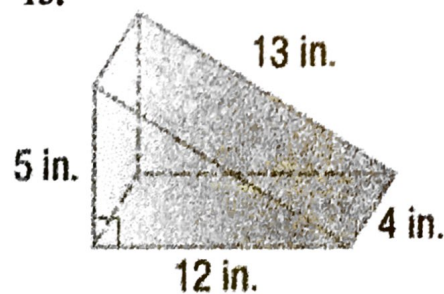


$$192 \text{ cm}^2$$

12.



13.

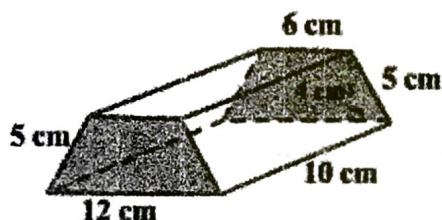


$$180 \text{ in}^2$$

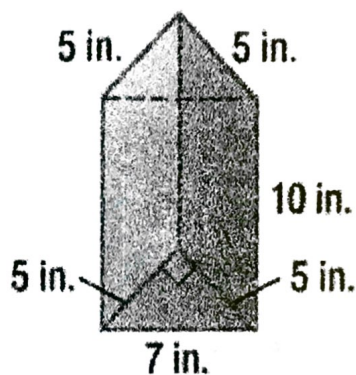
The following problems are EXTRA CREDIT. ☺

Find the surface area of each shape. Please show your work and round to the tenths.

14.

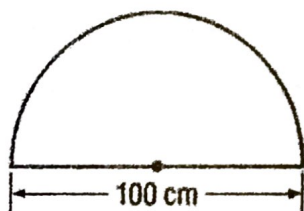


15.



Find the total distance around each figure. Include all solid lines in your answer.

16.



17.

