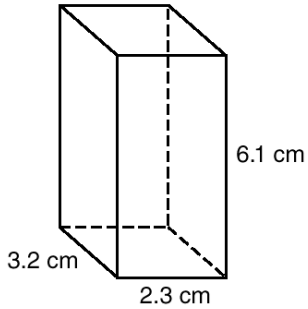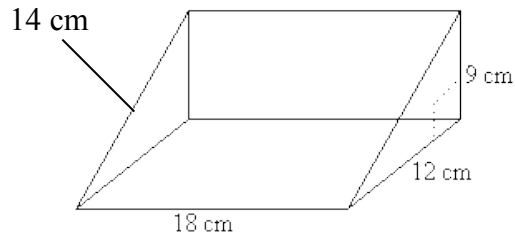## HW 6-5
Int 1   **Surface Area**   **Unit 6**

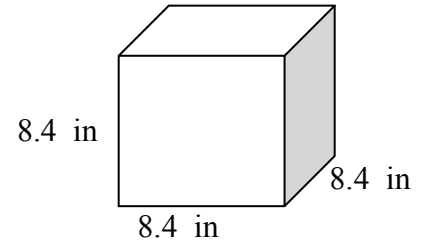# Find the surface area of each solid. Round to the nearest tenth when necessary.
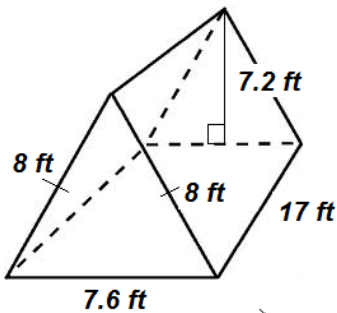
1.

6.1 cm
3.2 cm
2.3 cm

2.

14 cm
9 cm
12 cm
18 cm

3.

8.4 in
8.4 in
8.4 in

4.

7.2 ft
8 ft
8 ft
17 ft
7.6 ft

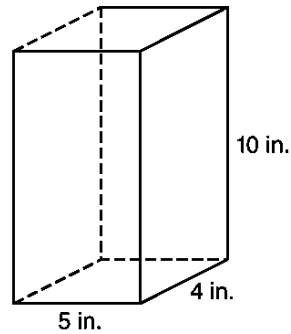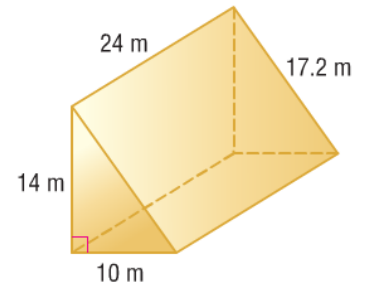**5.**

10 in.
4 in.
5 in.

6.

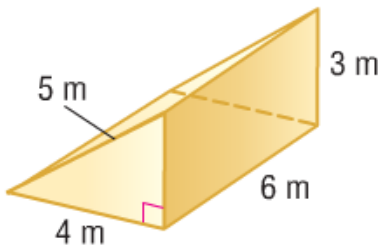24 m
17.2 m
14 m
10 m

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

7. The surface area of a rectangular prism is 108 ft².
    What are possible measurements for length, width and height?
    Length = _____   Width = _____   Height = _____

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 m².
    Is this correct? Explain.

    5 m
    3 m
    6 m
    4 m

9. For the surface area of this shape.
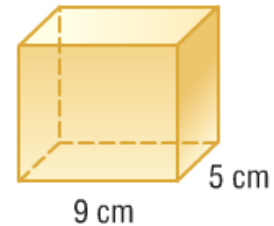   Area of the top of the shape = 45 cm²
    Area of the bottom of the shape = 45 cm²
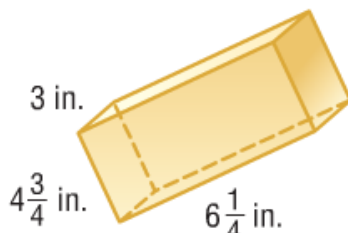   Area of one side = 40 cm²
    Area of the other side = 40 cm²
    Area of the front of the shape = 72 cm²
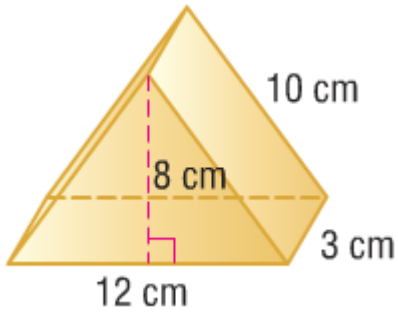   Area of the back of the shape = 72 cm²

    5 cm
    9 cm

    Using this information what is the height of the shape? _____

10. Kim found the surface area of the following rectangular prism. Once she
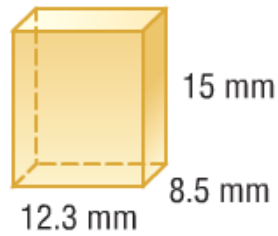   rounded to the tenths her answer was 89.1 in². Is this correct? Explain.

    3 in.
    $4\frac{3}{4}$ in.
    $6\frac{1}{4}$ in.

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

11.

10 cm

8 cm

3 cm

12 cm

12.
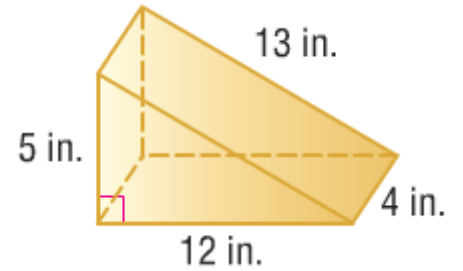
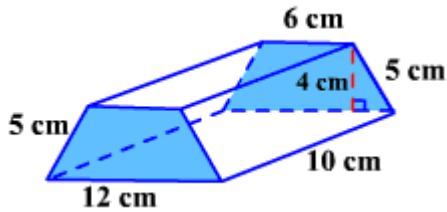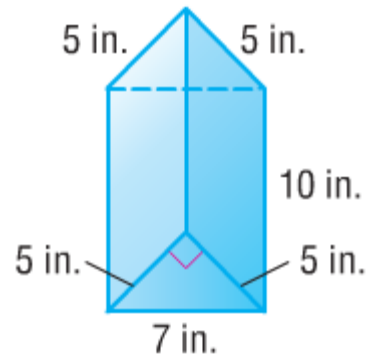

15 mm

8.5 mm

12.3 mm

13.

13 in.

5 in.

4 in.

12 in.

The following problems are EXTRA CREDIT. ☺

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

14.

6 cm

4 cm   5 cm

5 cm

10 cm

12 cm

15.

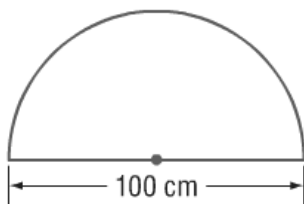5 in.   5 in.

10 in.

5 in.   5 in.

7 in.

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

16.

100 cm

17.

5 ft

5 ft