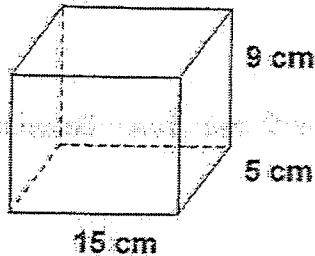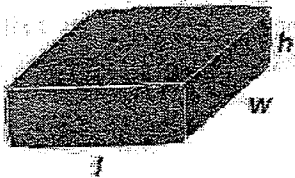# Surface Area

Find the surface area for each. Make sure to show all work including the formula!

1. Find the surface area of the rectangular prism. Express your answer in square centimeters.
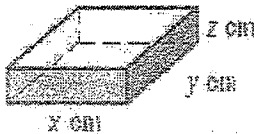

9 cm

5 cm

15 cm

2. You are wrapping a gift box that is 18 inches by 14 inches by 3 inches. What is the least amount of wrapping paper you need in order to wrap the box. Express your answer in square inches.

3. You are making the stadium cushion shown. The foam for the cushion costs $1.75, and the fabric costs $0.67 per square foot. How much does it cost (in dollars) to make the cushion?
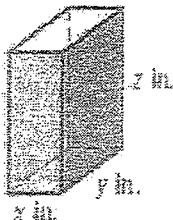

h

w

l

Where l = 1.3 ft, w = 1.8 ft, h = 0.8 ft.

4. Find the surface area of the rectangular prism if x = 19, y = 17, and z = 4.

z cm

y cm

x cm

5. Find the surface area of the rectangular prism if x = 4, y = 7, and z = 10.

z in.

y in.

x in.

Find the surface area of the cylinder. Use 3.14 for π.

6. $r = 6$ cm

    $h = 13$ cm

7. Find the surface area of a cylinder with the given dimensions. Use 3.14 for π. Write your answer using millimeters.
    Radius: 5 cm
    Height: 7 mm

8. Find the surface area of the cylinder. Use 3.14 for π.

    $r = 6$ cm

    $h = 4$ cm

9. A balance board rocks back and forth on a wooden cylinder. The cylinder has a radius of 4 inches and a surface area of 287 square inches. Find the height of the cylinder in inches. Use 3.14 for π.
    Round to the nearest inch.

10. Find the surface area of the cylinder. Use 3.14 for π.

    $r = 3$ cm

    $h = 8$ cm