

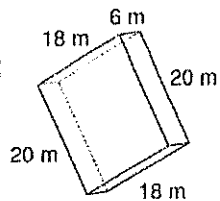
Name: key

Block: _____

Date: _____

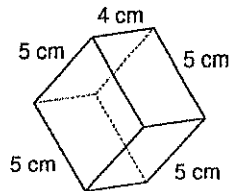
Find the surface area of each figure. Round to one decimal place.

1)



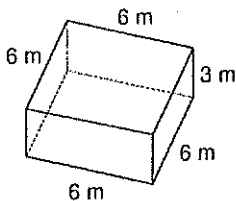
$$1176 \text{ m}^2$$

2)



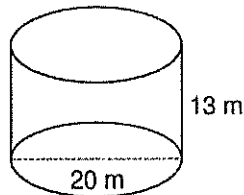
$$130 \text{ cm}^2$$

3)



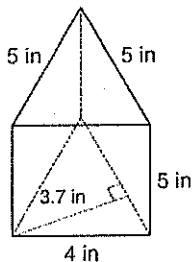
$$144 \text{ m}^2$$

4)



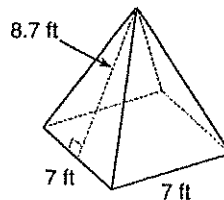
$$1445.1 \text{ m}^2$$

5)



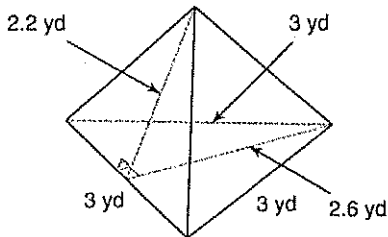
$$88.5 \text{ in}^2$$

6)



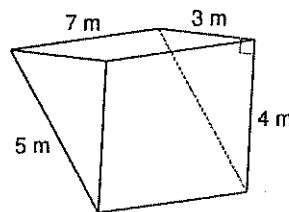
$$170.8 \text{ ft}^2$$

7)



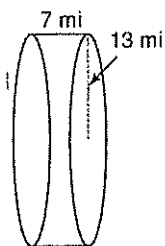
$$13.8 \text{ yd}^2$$

8)



$$96 \text{ m}^2$$

9)



$$1633.6 \text{ mi}^2$$

10)

A cardboard tube with a length of 30 cm and a radius of 4 cm.

$$754 \text{ cm}^2$$

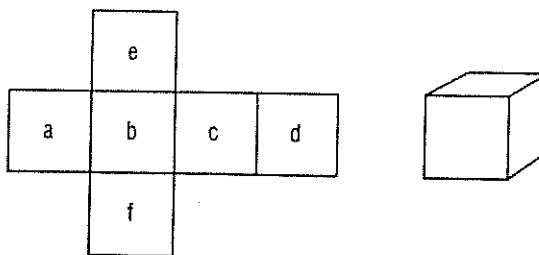
Name key

8.2 Surface Areas of Polyhedra

MATHPOWER™ pp. 248-249

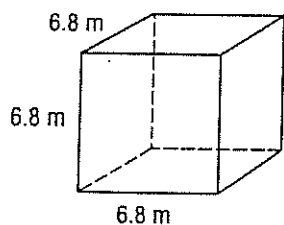
The surface area of a figure is the sum of the areas of all its faces.

surface area = areas of $a + b + c + d + e + f$



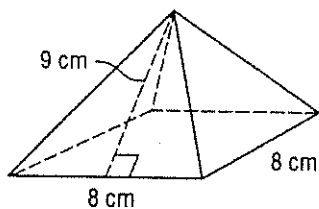
Draw the net. Then, estimate and calculate the surface area of each polyhedron.

1.



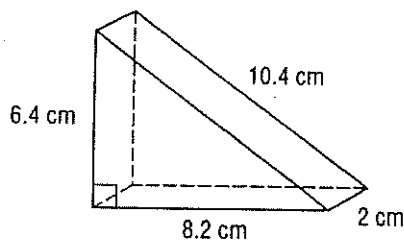
277.44 m²

2.



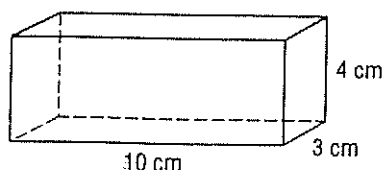
208 cm²

3.



102.48 cm²

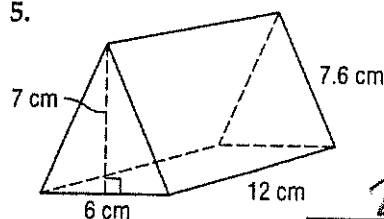
4.



164 cm²

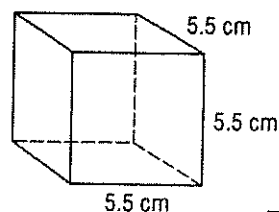
Calculate the surface area.

5.



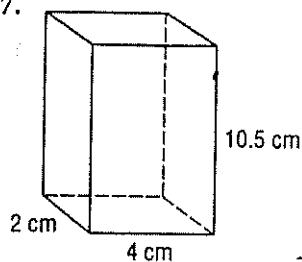
296.4 cm²

6.



181.5 cm²

7.

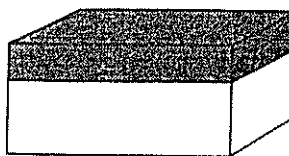


142 cm²

8. A box of facial tissues is 22 cm by 10.5 cm by 8 cm. How much cardboard is on the outside surface?

982 cm²

9. A storage box is 60 cm long, 45 cm wide, and 30 cm high. The lid is 10 cm high. What is the surface area of the box and its lid?



13800 cm²