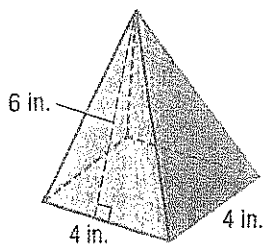


Surface Area of Pyramids

Guided Practice

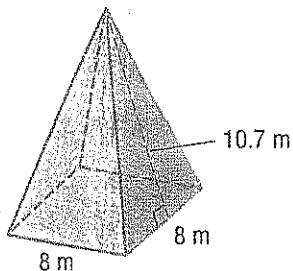
Find the surface area of each pyramid. (Examples 1–2)

1. _____

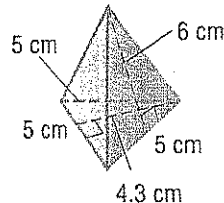


Show your work.

2. _____



3. _____

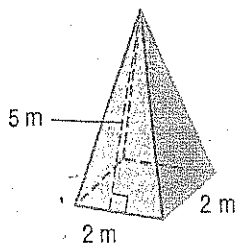


4. Pyramid-shaped gift boxes have square bases that measure 5 inches on each side. The slant height is 6.5 inches. How much cardboard is used to make each box? (Example 3)

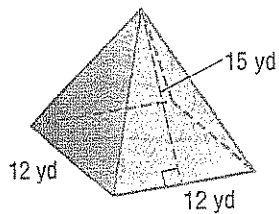
Independent Practice

Find the surface area of each pyramid. (Examples 1–2)

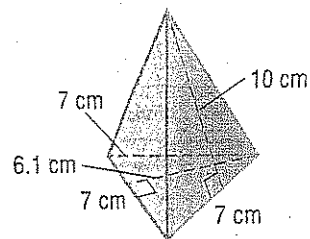
1. _____



2. _____



3. _____



Show your work.

7. A tea bag is shaped like a square pyramid with the base measuring 4 centimeters on each side. The slant height is 4.5 centimeters. How much mesh is used to create the tea bag? (Example 3)

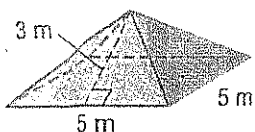
8. An earring design is shaped like a triangular pyramid. It is made up of equilateral triangles with side lengths of 14 millimeters. The slant height is 12.1 millimeters. What is the surface area of the earring? (Example 3)

9. An acting award is a square pyramid with a base that measures 6 inches on each side. The slant height is 8 inches. What is the surface area of the award? (Example 3)

Extra Practice

Find the surface area of each pyramid.

14. 55 m^2



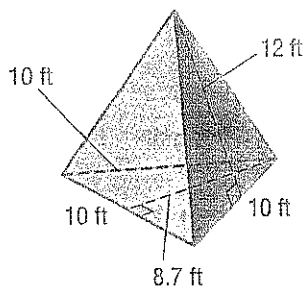
area of base: $5 \cdot 5 = 25 \text{ m}^2$

area of each face: $\frac{1}{2} \cdot 5 \cdot 3 = 7.5 \text{ m}^2$

surface area = $25 + (4 \cdot 7.5)$
 $= 25 + 30 \text{ or } 55 \text{ m}^2$

Homework Help

15. 223.5 ft^2



area of base: $\frac{1}{2} \cdot 10 \cdot 8.7 = 43.5 \text{ ft}^2$

area of each face: $\frac{1}{2} \cdot 10 \cdot 12 = 60 \text{ ft}^2$

surface area = $43.5 + (3 \cdot 60)$
 $= 43.5 + 180 \text{ or } 223.5 \text{ ft}^2$