

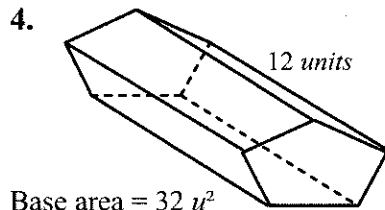
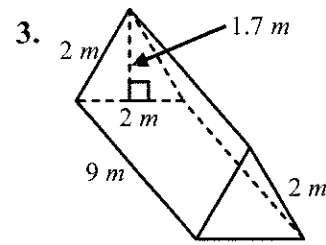
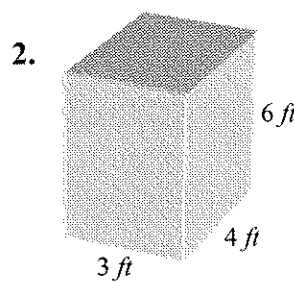
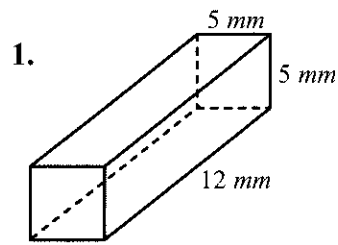
Lesson 12 ~ Surface Area of Prisms

Name _____

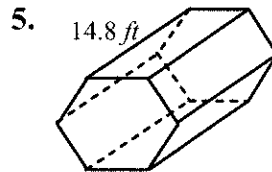
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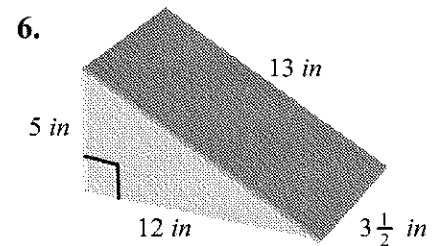
Find the surface area of each prism.



Base area = 32 u^2
Perimeter of base = 16 units



Base area = 92.5 ft^2
Each side of the base is 6.8 ft



7. Ramon has a storage box that is a hexagonal prism. The box has a lateral area of 342 cm^2 . The bottom of the box is 68 cm^2 . What is the total surface area of the storage box?
8. A triangular prism has a surface area 257 in^2 . The lateral area is 201 in^2 . Find the area of one of the bases.
9. An octagonal prism has a base area of 235 in^2 . The surface area of the prism is 500 in^2 . What is the lateral area of the prism?
10. A shoe box is 24 inches long, 12 inches wide and 8 inches deep.
 - a. Find the area of one base of the box.
 - b. What is the lateral area of the box?
 - c. Calculate the surface area of the box.
 - d. Use the formula $2(lw + wh + lh)$ from the Oregon State Assessment formula sheet to calculate the surface area of the box. Does it confirm your answer to **part c**?
11. One of the faces of a cube is 25 cm^2 . What is its surface area of the cube?