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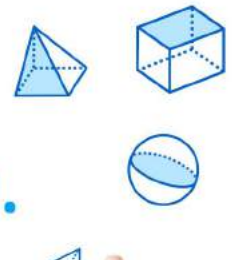

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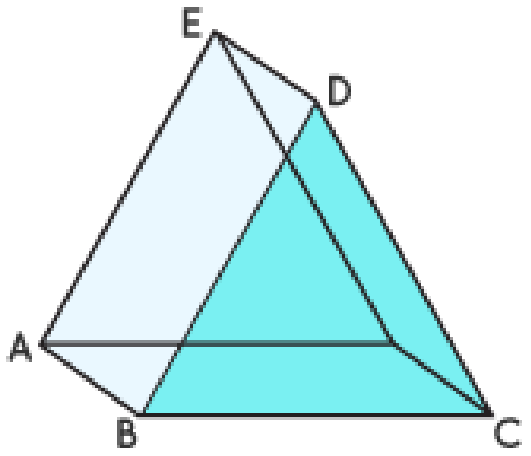
Surface Area of a Triangular Prism Worksheet II

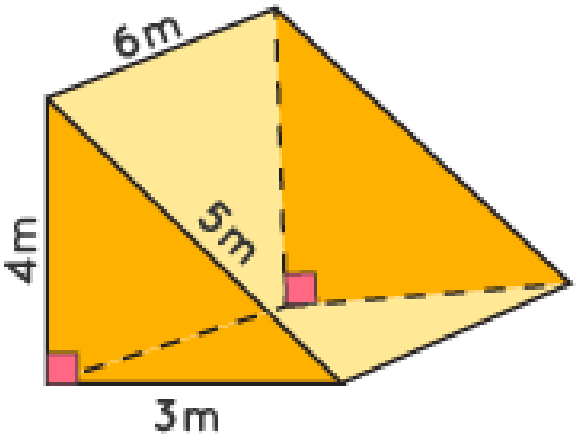
1) What is the formula for the surface area of a triangular prism?

2) Determine the surface area of a given equilateral triangular prism?
BD=8m
AB=10m



3) Formula for the surface area of a right triangular prism is _____

4) Find the surface area of a given triangular prism.



5) The surface area of a triangular prism is found by adding up the area of____

a. Two rectangles and two triangles.
b. Two triangles and four rectangles.
c. Two triangles and three rectangles.
d. Three triangles and two rectangles.

6) A Toblerone has a length of 6 units and a triangular end with a base of 5 units and the length of its two sides is 8 units. What is the surface area of the Toblerone?

7) What is the total surface area of a triangular prism that is 6 inches wide, 4 inches high, and 7 inches long?

8) A triangular prism has dimensions of the triangular face as: height = 4 in and base = 6 in. The length of the prism is 6 in. If the triangle is isosceles, find the surface area of this prism?

9) A small cardboard box of chocolates in the shape of a triangular prism has a triangular end with a base of 15 units and a height of 10 units. The length of each side of the box is 12 units and the width of each side of a box is 10 feet. What is the surface area of the cardboard box of chocolates?

10) A house in a shape of a cube with a triangular prism on top. If the total surface area of the house is 567sq. feet and the surface area of the cube is 346 sq. feet, what is the remaining surface area of the triangular prism?

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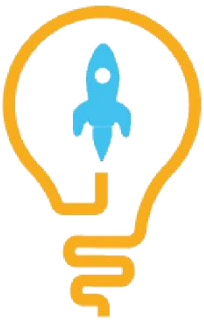
ANSWERS



1. bh+l(a+b+c)	2. 295.4 sq. m	3. bh+l(a+b+c)	4. 84 sq. m	5. c.Two triangles and three rectangles.
6. 164 sq. units	7. 150 sq. units	8. 120 sq. in.	9. 510 sq. units	10. 223 sq. feet

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FUN FACT

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

2. Triangular prisms have two (congruent) triangular bases and three rectangular sides.

3. The type of triangle the base of a triangular prism can tell you a lot about the sides of the prism:
If the base is an isosceles triangle, two of the rectangular faces will be congruent. If the base is an equilateral triangle, all three of the rectangular faces will be congruent.