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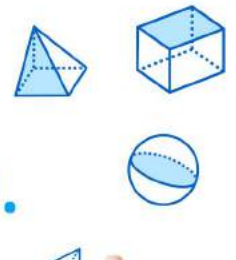

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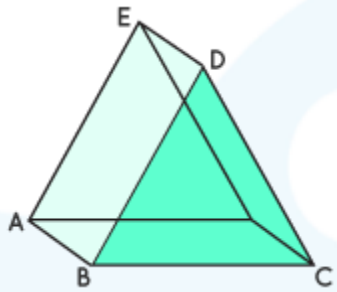
Surface Area of a Triangular Prism Worksheet IV

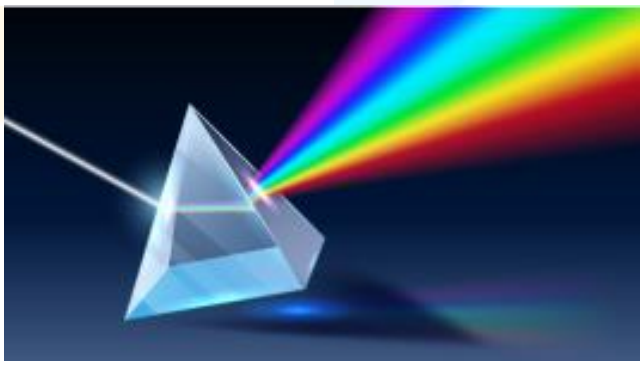
1) Formula for the surface area of a Right triangular prism____

2) Determine the surface area of a given equilateral triangular prism____
BD=18in
AB=12in



3) Formula for the lateral surface area of an equilateral triangular prism is _____

4) A triangular prism has an isosceles triangle as its base with sides 5 units, 5 units, and 3 units. If the length of the prism is 4 cm, find the lateral surface area.



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

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

6) A triangular prism-shaped cardboard is 6 units long 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 cardboard?

7) What is the lateral surface area of an equilateral triangular prism that is 6 inches wide, and 7 inches long?

8) In a right triangular prism, the height of a triangular face is 4 m and a base of 3 m. The length of the rectangle is 6 in. What is the lateral surface area of this triangular prism?

9) A small cardboard box of chocolates in the shape of an equilateral triangular prism has a triangular end with a base of 15 units. The length of the box is 12 units. What is the surface area of the cardboard box of chocolates?

10) A toy is composed of a cube with a triangular prism on top. If the total surface area of the toy is 786 sq. in and. The surface area of a cube is 400 sq. in. Find the remaining surface area of the triangular prism?

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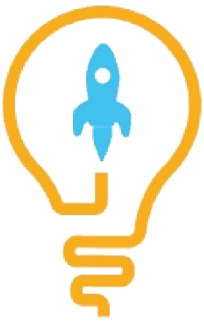
ANSWERS



1. $bh+l(a+b+c)$	2. 928.59 sq. in	3. $\sqrt{3}/4\ a^2+ +3al$	4. 102 sq. in	5. c.Two right triangles and three rectangles.
6. 164 sq. units	7. 66.3 sq. units	8. 84sq. in.	9. 734.85 sq. units	10. 286 sq. in

FUN FACT

1. Triangular prisms have two (congruent) triangular bases and three rectangular sides.
2. The surface area of a prism is the sum of the areas of all of its faces.
3. The type of triangle the base of a triangular prism can tell you a lot about the sides of the prism:
    a. If the base is an isosceles triangle, two of the rectangular faces will be congruent.
    b. If the base is an equilateral triangle, all three of the rectangular faces will be congruent.