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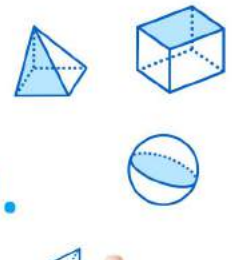

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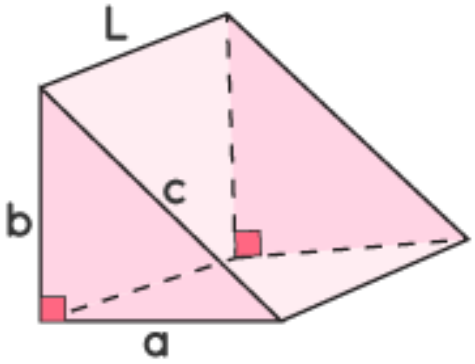
Surface Area of a Triangular Prism Worksheet I

1) Formula for the surface area of a triangular prism is_____.

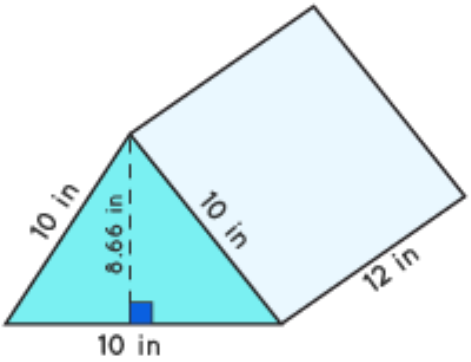
2) Formula for the surface area of an equilateral triangular prism is.

a. Height × side + 3 × side × length of a prism.
b. √ ¾ × side^2+ 3 × side × length of a prism.
c. Both a and b
d. None of these

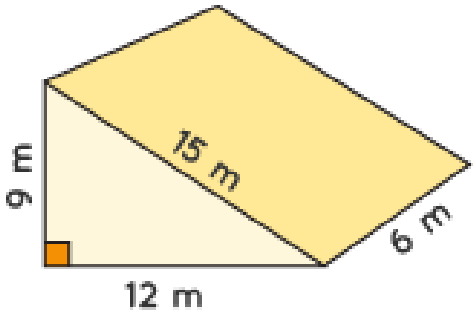
3) What is the formula for the surface area of a given triangular prism.



4) Find the surface area of a given prism.



5) Determine the surface area of a given right triangular prism.

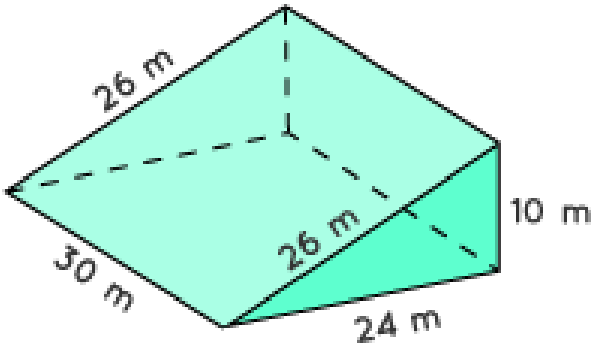


6) A triangular prism-shaped cardboard box with the sides of the triangle 28 feet, 36 feet, and 12feet. If the length of the prism is 2 feet, what is the surface area of the cardboard?

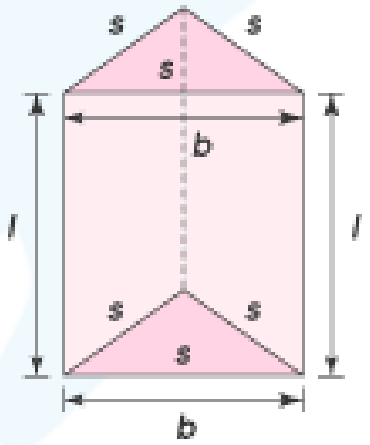
7) If the lateral area of a right triangular prism is 10 square inches and the area of its triangular base is 8 square inches, what is the total surface area of the prism?

a. 20 square inches
b. 28 square inches
c. 18 square inches
d. 26 square inches

8) Find the total surface area of the given triangular prism.



9) The base of a right triangular prism is an equilateral triangle with side 's' units. If 'x' is the height of this prism, find the lateral area of this triangular prism in terms of s and x.



10) Find the difference between the surface area and the lateral area of a right triangular prism if the area of one of its bases is 49 square inches.

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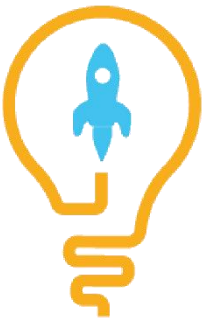
ANSWERS



1. $bh+l(a+b+c)$	2. c.Both a and b	3. $b \times a+3L \times c$	4. 446.6 sq. in	5. 324 sq. m
6. 433.14 sq. feet	7. d.26 square inches	8.2024 m^2	9. 3sx	10. 49 square inches

FUN FACT

1) The surface area of a prism is the sum of the areas of all of its faces. Triangular prisms have two (congruent) triangular bases and three rectangular sides.

2) 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.

3) If the base is an equilateral triangle, all three of the rectangular faces will be congruent.