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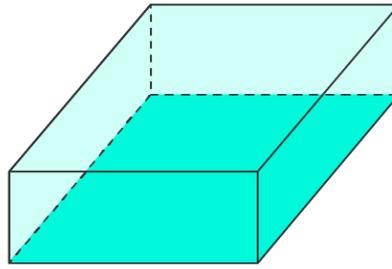
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SURFACE AREA OF A RECTANGULAR PRISM WORKSHEET

- 1) What is the formula of the surface area of a rectangular prism?
- 2) If the length and width of a rectangular prism are given, we can find its surface area.
 - a. True
 - b. False
- 3) The difference between the surface area of a rectangular prism and the area of its four walls will give us:
 - a. Area of its base
 - b. Double the area of its base.
 - c. Half the area of its base
 - d. It is a useless quantity.
- 4) Match the following:

a-triangle	$p-2(lb+bh+hl)$
b-rectangular prism	$q-\frac{1}{2}(bh)$
c-rectangle	$r-a^2$
d-square	$s-ab$
- 5) If the areas of four walls and the base of a rectangular prism are given. What can be calculated by the given data?
 - a. It is the surface area.
 - b. Its Volume
 - c. Both a) and b)
 - d. None of them can be determined.

6) Sunny has a 3-D toy in the shape of a rectangular prism. If its height is 25 inches, the length is 12 inches, and the width is 5 inches. The surface area of the 3-D toy is 1000 sq. inches.



- a. True
- b. False

7) A rectangular prism has its length, width, and height as 3 inches, 4 inch and 8 inches, respectively. Its surface area is _____.

8) A toy is in the shape of a rectangular prism. The height, length, and base of the toy are 50 inches, 15 inches, and 10 inches, respectively. Find the surface area of the toy.

9) It is required to paint the faces of a rectangular prism of height 30 inches, length 4 inches, and base 6 inches. Find the total area that needs to be painted.

10) An aquarium is in the form of a rectangular prism. Three dimensions of an aquarium are 10 inches, 40 inches, and 100 inches, respectively. _____ is the surface area of the aquarium.



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ANSWERS

1)	$2(lb + bh + hl)$
2)	False
3)	b) Double the area of its base
4)	a-q b-p c-s d-r
5)	a. It's the surface area
6)	False
7)	136 sq. inch
8)	2800 sq. in
9)	648 sq. inches
10)	10800 sq. inches

FUN FACT

1. The surface areas can be found for regular two-dimensional figures.
2. The surface area of a rectangular prism is calculated by the total area of all six faces.
3. A rectangular prism in which the faces are not perpendicular to each other is called an oblique rectangular prism.

