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SURFACE AREA OF A RECTANGULAR PRISM WORKSHEET

- 1) What formula can be used to find the surface area of a rectangular prism?
 - a. $l + bh$
 - b. $2(lb+bh+hl)$
 - c. $12(l+b)h$
 - d. lbh^2

- 2) A rectangular prism will have:
 - a. 2 faces
 - b. 4 faces
 - c. 6 faces
 - d. Either

- 3) Match the following for finding area or surface area:

a-Cube	p-length, width and height should be given.
b-Rectangular prism	q-any of the sides should be given.
c-Square	r-base and height should be given.
d-Triangle	s-one of three sides should be given.

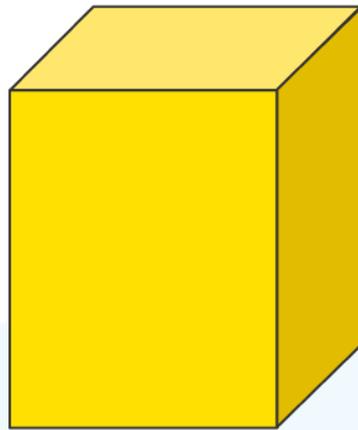
- 4) The surface area of a rectangular prism with length = 3, width = 5 inches, and height = 12 inches is _____.
 - a. 202 sq. inch
 - b. 222 sq. inch
 - c. 242 sq. inch
 - d. 262 sq. inch

- 5) Length and width of a rectangular prism are 12 m and 15 m respectively. If its height is 40 m. Its surface area is
 - a. 2560 sq. m
 - b. 2540 sq. m
 - c. 2520 sq. m
 - d. 2500 sq. m

6) If the surface area of a rectangular prism is 1550 sq. inch. Then its length, width, and its height are 14, 5, and 7 inches, respectively.

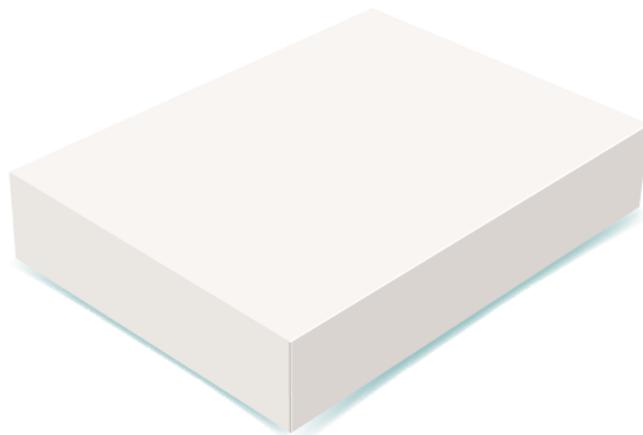
- a. True
- b. False

7) What is the surface area of a rectangular prism with a height of 20 inches, base 3 inches, and length 4 inches?



8) A room is in the shape of a rectangular prism with $l = 12$ feet, $b = 11$ feet, and $h = 10$ feet. The walls of the room are to be painted. Find the surface area to be painted.

9) Surface area of a rectangular prism is 190 sq. inches. Its length and width are 3 inches and 5 inches, respectively. Height of the rectangular prism is?



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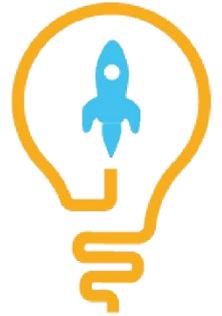
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10) In a rectangular prism ABCDEFGH, $AB = 15$ m, $BC = 10$ m and the height of the rectangular prism is 12 m. Find the surface area of ABCDEFGH.

ANSWERS

1)	$b \cdot 2(lb + bh + hl)$
2)	c) 6 faces
3)	a-s b-p c-q d-r
4)	b) 222 sq. inch
5)	c) 2520 sq m
6)	False
7)	304 sq. inches
8)	460 sq. feet
9)	10 inches
10)	900 m

FUN FACT

1. The surface is used to measure areas of rooms, playgrounds, craft paper areas, walls for painting, etc.
2. Surface area can be found for two-dimensional figures such as a square, rectangle, triangle, circle, rhombus, parallelogram, quadrilateral, polygon.
3. Human lungs contain about 500 million air pouches for the exchange of oxygen. They create a surface area of around half the size of a tennis court.

