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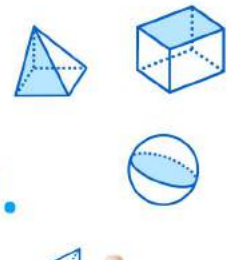

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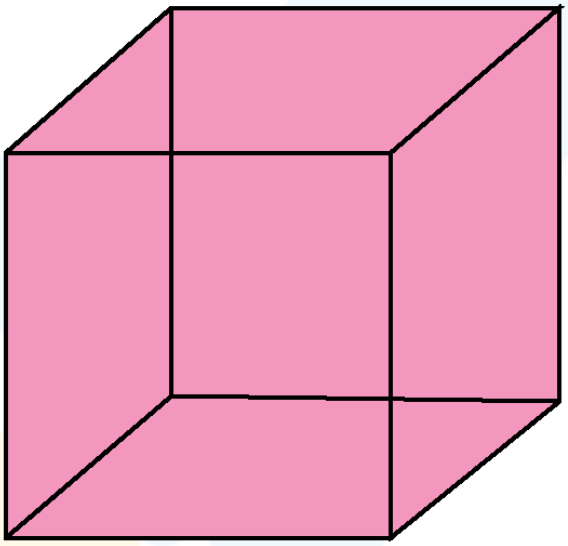
SURFACE AREA OF A CUBE WORKSHEET I

1) The sum of areas of all the sides of an object is called _____. The formula of total surface area of a cube of is___.

2) Calculate the total surface area of the cube whose edge is 50 cm.

3) How many identical square surfaces are there in a cube?



4) The total surface area of a cubical die is 150 in^2. Find the length of each edge?

5) How much gift paper is required to at least fully cover a cubical box of edge length 50 in?

6) The edge of a cubical room is 120 in. The inner walls are to be painted (inclusive of windows and doors). Find the expenditure to be incurred at the rate of $5 per square inch.

7) Calculate the lateral surface area of the cube whose edge is 16 ft.

8) Find the total surface area of a cubical box of edge length 1.6 in.

9) Roger has a Rubik's cube of side length 5 in.
Fill in the blanks:
Total surface area of Rubik's cube = _____.
Lateral surface area of Rubik's cube = _____.

10) What is the cost of painting a cubical box with dimensions of 5m at the rate of $2 per square meter?

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- Kirk Riley

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- Barbara Cabrera

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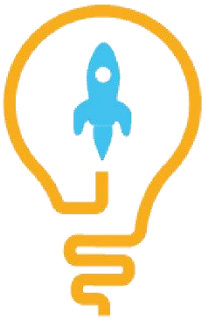

ANSWERS

1)	Total surface area, $6\ a^2$
2)	15000 sq. cm
3)	6
4)	5 in
5)	1500 sq. in.
6)	$288,000
7)	1024
8)	15.36 sq. in
9)	150, 100
10)	$300

FUN FACT

1. The skin of an average adult covers an area of 2 square meters.

2. Human lungs contain about 500 million air pouches for exchange of oxygen. They create a surface area of around half the size of a tennis court.

3. Surface area is used in everyday life:
   Painting/polishing a surface.
   Gift wrap needed for a gift.
   Dimensions of cardboard for making a box etc.