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Surface Area worksheet 6th grade

Questions

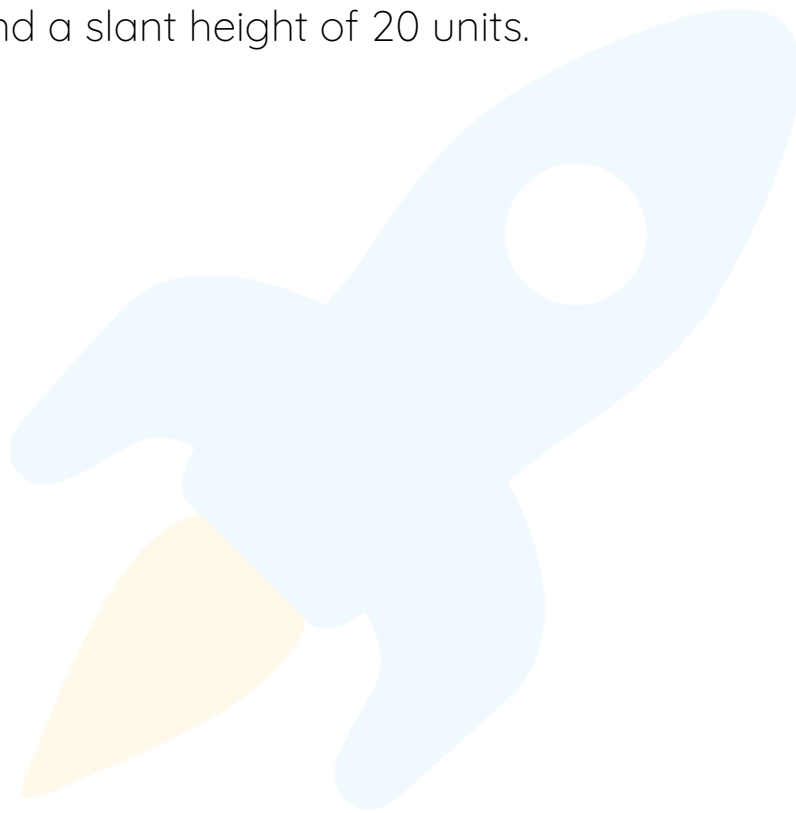
1. Find the total surface area of a cube having a side of 12 units.
2. What is the cost of painting a cubical box with a side length of 8 meter at the rate of \$3 per square meter?
3. The side of a square increases from 10m to 15m. Find the increase in its surface area.



4. Find the total surface area of a cuboid having the dimensions of 5 units, 9 units, and 11 units respectively.
5. Find the side of a cube having a surface area of 216 square units.
6. Find the curved surface area of a cylinder having a radius of 14 units and a height of 5 units.



7. Find the total surface area of a cylinder having a diameter of 4 units and a height of 3 units.
8. Find the curved surface area of a cylinder having a radius of 2 units and a height of 2 units.
9. What is the ratio of the curved surface area of a cylinder and the volume of the cylinder?
10. Find the curved surface area of a cone having a radius of 11 units, and a slant height of 20 units.



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in an interesting way,
you never forget.**



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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

| | |
|------|-----------------------|
| (1) | 864 square units |
| (2) | \$1152 |
| (3) | 750 square units |
| (4) | 378 square units |
| (5) | 6 units |
| (6) | 140π square units |
| (7) | 20π square units |
| (8) | 8π square units |
| (9) | 2h : r |
| (10) | 220π square units |

FUN FACT



1. Surface area can be found for two dimensional figures such as a square, rectangle, triangle, circle, rhombus, parallelogram, quadrilateral, polygon.
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 wrt Painting / polishing a surface