

Area of Triangles, Quadrilaterals and Volume of Cuboids

Year 7 · Geometry · y7-geo-area-triangle

Name: _____

Date: _____

Class: _____

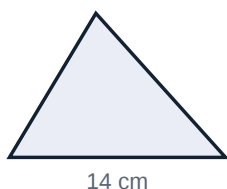
Score: ____ / ____

Instructions

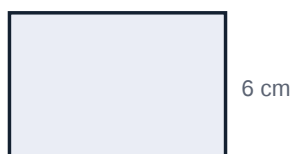
Answer every question in Practice. Try the Challenge section once Practice is complete. 10 questions in total.

Practice

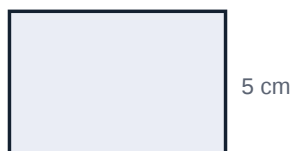
1. A triangle has a base of 14 cm and a perpendicular height of 8 cm. What is its area?



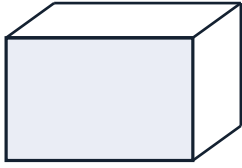
2. A parallelogram has a base of 12 cm and a perpendicular height of 6 cm. What is its area?



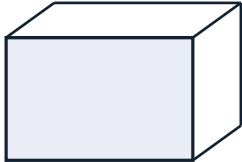
3. A trapezium has parallel sides of 8 cm and 12 cm, and a perpendicular height of 5 cm. What is its area?



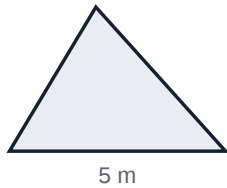
4. A cuboid has length 6 cm, width 4 cm and height 3 cm. Find its volume.



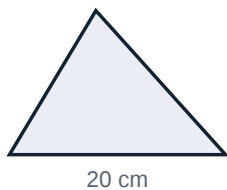
5. A cube has edge length 5 cm. Find its total surface area (6 faces).



6. A triangular sail has a base of 5 m and a perpendicular height of 6 m. What is the area of the sail?



7. The area of a triangle is half the base times the height. A triangle has base 20 cm and perpendicular height 9 cm. What is its area?



8. A parallelogram has a base of 10 cm, a perpendicular height of 6 cm, and a slant side of 8 cm. Use the perpendicular height, not the slant side. What is its area?



Challenge

1. A composite shape is made from a rectangle 10 cm by 6 cm with a triangle of base 10 cm and height 4 cm attached on top. What is the total area?
2. A tank shaped like a cuboid 2 m by 1.5 m by 1 m is completely wrapped in metal sheeting for its surface. How much sheeting is needed, in m^2 ?

