



Grade 4

Topic: Finding Unknown Measures

Instructions

Use the given information to determine the missing measure. Apply the correct formulas where needed. Show all steps in your calculations. Use appropriate units in your answers.

Section 1: Finding Unknown Lengths and Heights

Solve for the unknown measure in each problem.

1. A triangle has a base of **10 m** and an area of **35 m^2** . Find its height.
2. A parallelogram has a base of **15 cm** and an area of **90 cm^2** . Find its height.
3. The perimeter of a square is **48 cm**. Find the length of one side.
4. A trapezoid has bases of **12 cm** and **8 cm** with an area of **50 cm^2** . Find its height.

Section 2: Finding Unknown Angles

Solve for the unknown angle in each problem.

1. In a triangle, two angles measure 50° and 60° . Find the third angle.
2. A quadrilateral has three angles measuring 80° , 100° , and 70° . Find the fourth angle.
3. Two supplementary angles have one angle of 115° . Find the other angle.
4. In an isosceles triangle, one angle is 40° . Find the other two angles.

Section 3: Word Problems on Unknown Measures

Solve for the missing measure in each problem.

1. A swimming pool is **25 m** long and **10 m** wide. The total perimeter of the pool is _____.
2. A garden bed is in the shape of a triangle with a base of **9 m** and a height of **6 m**. What is its area?
3. A ladder is leaning against a wall, forming a 60° angle with the ground. If the ladder is **5 m** long, how high does it reach on the wall?
4. The hypotenuse of a right triangle is **13 cm**, and one leg is **5 cm**. Find the other leg.
5. The radius of a circle is **7 cm**. Find its circumference. (Use $\pi = 3.14$)
6. The area of a circle is **78.5 cm²**. Find its radius. (Use $\pi = 3.14$)
7. A rectangular prism has a volume of **240 cm³** with a base area of **30 cm²**. Find its height.

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