

NAME: _____

PERCENT PROPORTION

Solve each problem by writing and solving a proportion. Show all steps and round your answer to the nearest tenth if necessary.

Steps to Solve a Proportion

1. Set up the Proportion: Write the two ratios as fractions equal to each other. $\frac{A}{B} = \frac{C}{D}$
2. Cross-Multiply: Multiply diagonally across the equal's sign. $A \times D = B \times C$
3. Solve for the Variable: Divide to find the unknown value. Unknown: $\frac{\text{Product of Known Values}}{\text{Other Known Value}}$
4. Round: Round your answer to the nearest tenth if needed.

a) 55% of 180 employees in a company are full-time. How many full-time employees are there?

Solution:

1. Set up the proportion:
2. Cross-multiply:
3. Solve for the Variable:
4. Answer:

b) 65% of 60 people in a survey prefer online shopping. How many people prefer online shopping?

Solution:

1. Set up the proportion:
2. Cross-multiply:
3. Solve for the Variable:
4. Answer:

c) 10% of 500 trees in an orchard are pear trees. How many pear trees are in the orchard?

Solution:

1. Set up the proportion:
2. Cross-multiply:
3. Solve for the Variable:
4. Answer:

How Did You Do?   