

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) 15% of 320 employees in a company received a performance bonus. How many employees received a performance bonus?

Solution:

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

- b) 25% of 400 houses in a neighborhood have solar panels installed. How many houses have solar panels installed?

Solution:

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

- c) 18% of 350 participants in a marathon are from out of town. How many participants are from out of town?

Solution:

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

How Did You Do? 😊 😐 ☹️