

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) 18% of 400 people at a concert are children. How many children are at the concert?

### Solution:

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

b) 22% of 90 books in a library are non-fiction. How many non-fiction books are in the library?

### Solution:

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

c) 35% of 140 people in a survey prefer tea over coffee. How many people prefer tea?

### Solution:

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

How Did You Do? 😊 😐 ☹️