

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) 50% of the 20 students in an art club prefer painting. How many students prefer painting?

Solution:

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

b) 20% of 150 students in a school are in the band. How many students are in the band?

Solution:

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

c) 45% of 220 voters support a new policy. How many voters support the policy?

Solution:

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

How Did You Do? 