

Solving Proportions

Solve the following proportions.

1. $\frac{3}{4} = \frac{x}{8}$ 2. $\frac{2}{5} = \frac{8}{x}$ 3. $\frac{x}{6} = \frac{10}{3}$ 4. $\frac{3}{x} = \frac{9}{5}$

Solve the following proportions.

1. $\frac{3}{4} = \frac{x-2}{8}$ 2. $\frac{2}{5} = \frac{8}{x-4}$

3. $\frac{2x-3}{3} = \frac{9}{3}$ 4. $\frac{4}{3x-2} = \frac{2}{5}$

Solve the following proportions.

1. $\frac{3x}{4} = \frac{x-5}{3}$

2. $\frac{2}{2x} = \frac{3}{x-4}$

3. $\frac{4x-3}{3} = \frac{5x}{3}$

4. $\frac{4}{3x-20} = \frac{2}{5x}$

Solve the following proportions.

1. $\frac{3x+1}{x-5} = \frac{4}{3}$

2. $\frac{2}{3} = \frac{2x+3}{x-4}$

3. $\frac{4x-3}{5x+2} = \frac{2}{3}$

4. $\frac{4x+1}{3x-20} = \frac{2}{5}$

Set up a proportion to solve each problem, show all work, and label all answers.

1. The ratio of boys to girls is 4 to 3. If there are 36 boys, how many girls are there?

2. At a recent party, it cost \$11.50 for refreshments for 6 guests. At this rate, how much would it cost to have refreshments for 80 guests?

3. Mr. Johnson was paid \$2250 for a job that required 30 hours of work. At this rate, how much should he be paid for a job requiring 45 hours of work?

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| | <p>4. If a jogger runs 3 miles and burns 221 calories, how many calories would he burn jogging 4 miles?</p> <p>5. Central High School has 1675 students. The student to teacher ratio is 21 to 1. How many teachers are at Central High School?</p> <p>6. A recipe calls for $2\frac{3}{4}$ cups of flour to make 2 dozen cookies. How many cups of flour would be required to bake 11 dozen cookies?</p> |
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