

7-1 Puzzle: Crossword

Ratios and Proportions

Solve each problem. Write your answer in the crossword puzzle below. Each numerical answer should be written in word form. (Don't forget hyphens where appropriate!)

| | | | | | | | | | |
|---|----|---|---|---|---|--|---|--|---|
| 1 | | | 2 | | | | 3 | | 4 |
| | | | | | | | | | |
| 5 | | | | | | | | | |
| | | | | | 6 | | | | |
| 7 | | | | | | | | | |
| | | | | 8 | | | | | |
| | | | | | | | | | |
| | | 9 | | | | | | | |
| | | | | | | | | | |
| | 10 | | | | | | | | |

Across

- The ratio of two complementary angles is 3 to 7. Find the measure of the larger one.
- A ? is a comparison of two quantities by division.
- The measures of the angles of a triangle are in the ratio 1 : 3 : 5. How many degrees is the middle-sized angle?
- Find the value of x : $\frac{6}{x+5} = \frac{2}{3}$
- Find the value of y : $\frac{y}{6} = \frac{7.5}{9}$
- If $\frac{a}{3} = \frac{c}{11}$, then $\frac{a+3}{3} = \frac{c+\underline{?}}{11}$.

Down

- Mary is making a party mix to bring to school. She believes that the perfect ratio of pretzels to peanuts is 3 to 5. If Mary knows that she is going to use 65 peanuts in the mix, how many pretzels will she need?
- $\frac{a}{b} = \frac{c}{d}$ is equivalent to $\frac{b}{a} = \frac{d}{c}$. In other words, if two fractions are in proportion, their ? are also in proportion.
- The first and last numbers in a proportion are known as the ?.
- Find the value of z : $\frac{4z-2}{3} = \frac{2z+6}{5}$