

Lesson 10-2 **Reading in the Content Area****Main Idea**

1. Mark the *main idea* with an *M*.
Mark the statement that is *too broad* with a *B*.
Mark the statement that is *too narrow* with an *N*.

_____ To solve $\frac{x}{6} = \frac{3}{9}$, multiply 6 by 3 and then divide by 9.
_____ You can solve proportions by using cross products.
_____ Proportions can be used to solve real-life problems.

Subject Matter

2. This lesson is mainly about how to _____
 - a. find equivalent fractions.
 - b. solve problems with a variable.
 - c. multiply fractions like $\frac{5}{7} \times \frac{3}{13}$.
 - d. solve a proportion like $\frac{24}{32} = \frac{s}{500}$.

Supporting Details

3. To solve the proportion $\frac{5}{7} = \frac{25}{m}$, you should _____
 - a. multiply the numerators and the denominators.
 - b. find the cross products.
 - c. divide both sides by 7.
 - d. multiply both sides by 7.

Conclusion

4. To determine whether $\frac{1}{3}$ and $\frac{9}{27}$ form a proportion, you could _____
 - a. add the fractions.
 - b. multiply the fractions.
 - c. find if the cross products are equal.
 - d. find a common factor for 3 and 27.

Clarifying Details

5. The Key Concept box shows that proportions are equations _____
 - a. where two ratios are equivalent.
 - b. where two ratios are unequal.
 - c. that have many properties.
 - d. where two ratios are a comparison.

Vocabulary in Context

6. A *ratio* means _____
 - a. any two numbers whose product is one.
 - b. the difference of two numbers.
 - c. a comparison of two numbers by division.
 - d. the distance from the center of a circle to any point on the circle.