

## Pre-Algebra Worksheet U6-1

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. You are designing a Super Bowl cake. You must choose whether it will be a Steelers or Cardinals cake, whether it is round, rectangular, or in the shape of a football, and whether the cake is white, chocolate, or yellow. How possible combinations are there?
  
  
  
  
  
  
  
  
  
  
2. You flip a coin, roll a 6-sided cube, and spin a spinner. The spinner is divided into 8 equal parts, labeled a, b, c, d, e, f, g, and h. Find the probability that you flip heads, roll an even number, and spin a vowel.

Add or subtract the following problems and reduce each answer to its lowest terms.

1.  $\frac{2}{4} + \frac{1}{4} =$

2.  $\frac{3}{8} + \frac{3}{8} =$

3.  $\frac{5}{9} + \frac{1}{9} =$

4.  $\frac{7}{15} + \frac{4}{15} =$

5.  $\frac{5}{6} - \frac{1}{6} =$

6.  $\frac{9}{12} - \frac{4}{12} =$

7.  $\frac{18}{20} - \frac{16}{20} =$

8.  $\frac{10}{14} - \frac{6}{14} =$

9.  $\frac{15}{17} - \frac{5}{17} =$

Reduce each fraction to its lowest terms.

10.  $\frac{12}{20}$

11.  $\frac{14}{35}$

12.  $\frac{16}{28}$

13.  $\frac{25}{30}$

14.  $\frac{90}{100}$

15.  $\frac{22}{24}$