## Adding and Subtracting Rational Numbers - Word Problems

- 1. During the recycling drive,  $\frac{1}{5}$  of the material collected was bottles and  $\frac{1}{4}$  was paper. Cardboard boxes made up  $\frac{1}{10}$  of the material. How much of the total do these three items represent?
- 2. Decorations for school dances take  $\frac{1}{5}$  of the student council's budget.

  Entertainment takes  $\frac{3}{10}$  of the budget. What fraction of the budget is left?

- 3. The school environmental club made a poster to celebrate Earth Day. The poster is  $\frac{7}{8}$  yard long and  $\frac{2}{3}$  yard wide. What is the difference in the length and width of the poster?
- **4.** Three students ran for president of the student council. Eddie received  $\frac{1}{5}$  of the votes. Tamara received  $\frac{3}{8}$  of the votes. Levi received the rest. Which student won the election?

## Choose the letter for the best answer.

5. The Reeds budget  $\frac{1}{3}$  of their income for rent and  $\frac{1}{4}$  for food. How much of their budget is left?

A 
$$\frac{1}{2}$$

$$c_{\frac{5}{12}}$$

**B** 
$$\frac{3}{4}$$

**D** 
$$\frac{7}{12}$$

6. Jasmine's CD collection is  $\frac{3}{8}$  jazz,  $\frac{1}{4}$  classical, and the rest rock music. What fraction of her CDs is rock music?

$$F^{\frac{1}{4}}$$

$$H^{\frac{1}{2}}$$

$$G^{\frac{3}{8}}$$

$$J = \frac{5}{8}$$

7. Wong has 2 boxes of saltwater taffy. One box contains 
$$\frac{3}{4}$$
 pound, and the other box contains  $\frac{7}{10}$  pound. How much taffy does he have all together?

8. 
$$-2\frac{1}{2}+6$$

$$A \frac{9}{10}$$
 pound

**B** 
$$1\frac{9}{20}$$
 pounds

C 
$$1\frac{1}{2}$$
 pounds

**D** 
$$1\frac{13}{20}$$
 pounds

9. 
$$2\frac{1}{3} - \left(-\frac{2}{3}\right)$$

10. 
$$11\frac{3}{4} + \left(-8\frac{1}{4}\right)$$

11. The school track is  $\frac{7}{8}$  mile in length. Sherri ran  $\frac{2}{3}$  mile. How much farther does she have to go to get all the way around the track?

12. The Millers budget  $\frac{1}{2}$  of their income for fixed expenses and  $\frac{1}{8}$  of their income for savings. What fraction of their income is left?