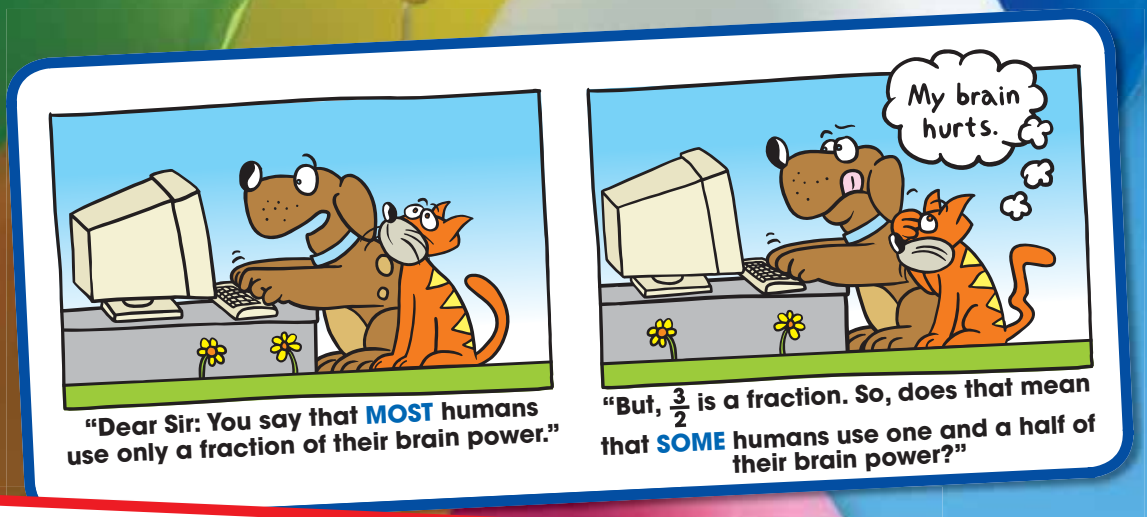
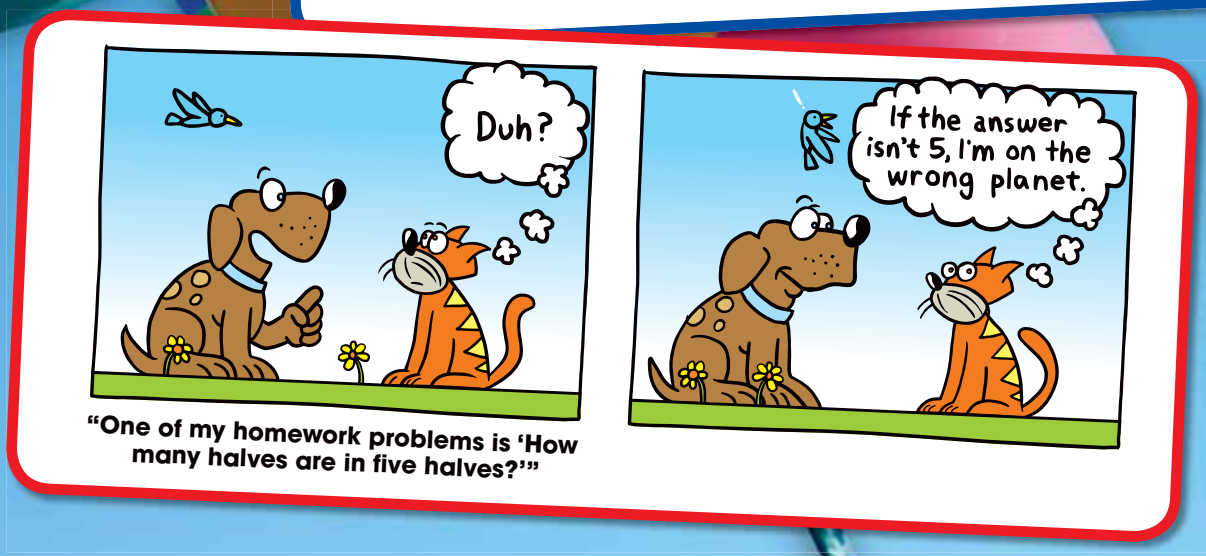
English Spanish

2 Multiplying and Dividing Fractions





English Spanish

What You Learned Before

Adding and Subtracting Fractions

Example 1 Find $\frac{3}{4} + \frac{1}{8}$.

$$\frac{3}{4} + \frac{1}{8} = \frac{3 \cdot 2}{4 \cdot 2} + \frac{1}{8}$$
$$= \frac{6}{8} + \frac{1}{8}$$
$$= \frac{7}{8}$$

Use the Least Common Multiple to find a common denominator.

Example 2 Find $\frac{5}{6} - \frac{1}{5}$.

$$\frac{5}{6} - \frac{1}{5} = \frac{5 \cdot 5}{6 \cdot 5} - \frac{1 \cdot 6}{5 \cdot 6}$$
$$= \frac{25}{30} - \frac{6}{30}$$
$$= \frac{19}{30}$$

Try It Yourself

Find the sum or difference.

1. $\frac{1}{16} + \frac{1}{8}$
2. $\frac{1}{15} + \frac{4}{9}$
3. $\frac{1}{5} - \frac{2}{25}$
4. $\frac{3}{4} - \frac{2}{7}$

Writing Mixed Numbers and Improper Fractions

Example 3

Write $2\frac{3}{4}$ as an improper fraction.

$$2\frac{3}{4} = 2 + \frac{3}{4}$$
$$= \frac{8}{4} + \frac{3}{4}$$
$$= \frac{11}{4}$$

Example 4

Write $\frac{23}{2}$ as a mixed number.

$$2\overline{)23}\quad 11\ \text{R}1$$

$$\frac{23}{2} = 11\frac{1}{2}$$

Try It Yourself

Write the mixed number as an improper fraction.

5. $3\frac{1}{2}$
6. $7\frac{5}{11}$
7. $5\frac{4}{5}$
8. $10\frac{2}{3}$

Write the improper fraction as a mixed number.

9. $\frac{28}{25}$
10. $\frac{100}{3}$
11. $\frac{17}{15}$
12. $\frac{57}{10}$