

**SECTION**

**Ready to Go On? Skills Intervention**

**4A**

**4-1 Estimating with Fractions**

Sometimes exact answers are not needed for a problem. In these cases, you can estimate. It is easiest to round fractions by comparing numerators and denominators.

If the numerator is much smaller than the denominator, round to 0.

If the numerator is about half the denominator, round to  $\frac{1}{2}$ .

If the numerator is nearly equal to the denominator, round to 1.

**Estimating Sums and Differences**

Estimate each sum or difference.

**A.**  $-2\frac{3}{4} + 5\frac{1}{7}$

$-2\frac{3}{4} \rightarrow$  \_\_\_\_\_

Round each fraction.

$5\frac{1}{7} \rightarrow$  \_\_\_\_\_

$-3 + 5 =$  \_\_\_\_\_

Add the estimated values.

**B.**  $9\frac{4}{7} - 3\frac{7}{8}$

$9\frac{4}{7} \rightarrow$  \_\_\_\_\_

Round each fraction.

$3\frac{7}{8} \rightarrow$  \_\_\_\_\_

$9\frac{1}{2} - 4 =$  \_\_\_\_\_

Subtract the estimated values.

**Estimating Products and Quotients**

Estimate each product or quotient.

**A.**  $2\frac{3}{16} \cdot 3\frac{7}{9}$

$2\frac{3}{16} \rightarrow$  \_\_\_\_\_  $3\frac{7}{9} \rightarrow$  \_\_\_\_\_

Round each mixed number to the nearest whole number.

Multiply.

\_\_\_\_\_  $\cdot$  \_\_\_\_\_ = \_\_\_\_\_

**B.**  $18\frac{3}{11} \rightarrow$  \_\_\_\_\_  $2\frac{3}{4} \rightarrow$  \_\_\_\_\_

Round each mixed number to the nearest whole number.

Divide.

\_\_\_\_\_  $\div$  \_\_\_\_\_ = \_\_\_\_\_