

**SECTION**

**4C**

**Ready to Go On? Skills Intervention**

**4-8 Dividing Decimals**

When dividing a decimal by a decimal, multiply both numbers in the problem by the same multiple of 10 to make the divisor a whole number. Once the divisor is a whole number, place the decimal point in the answer directly above where it was moved to in the dividend.

**Dividing Decimals by Decimals**

Divide. Estimate to check whether your answer is reasonable.

**A.**  $4.44 \div 1.2$

$4.44 \div 1.2 = 44.4 \div \underline{\hspace{1cm}}$

Multiply both numbers by \_\_\_\_\_.

$$\begin{array}{r} 12 \overline{)44.4} \\ \underline{-36} \phantom{0} \\ 84 \\ \underline{-84} \\ 0 \end{array}$$

Divide as you would with whole numbers.

*Estimate:*  $\underline{\hspace{1cm}} \div 12 = \underline{\hspace{1cm}}$

Is the decimal in the correct place? \_\_\_\_\_

**B.**  $37.7 \div (-0.13)$

$37.7 \div (-0.13) = \underline{\hspace{1cm}} \div (-13)$

Multiply both numbers by \_\_\_\_\_.

$$\begin{array}{r} 13 \overline{)3770} \\ \underline{-26} \phantom{00} \\ 117 \\ \underline{-117} \\ 00 \end{array}$$

Divide as you would with whole numbers.

$37.7 \div (-0.13) = \underline{\hspace{1cm}}$

Since one number is positive and one is negative, the quotient is \_\_\_\_\_.

*Estimate:*  $\underline{\hspace{1cm}} \div (-0.13) = \underline{\hspace{1cm}}$

Is your answer reasonable? \_\_\_\_\_

**Dividing Integers by Decimals**

Divide. Estimate to check whether your answer is reasonable.

$6 \div (-0.75)$

$6 \div (-0.75) = 600 \div (-75)$

Multiply both numbers by 100.

$$\begin{array}{r} 75 \overline{)600} \\ \underline{-600} \\ 0 \end{array}$$

Divide as you would with whole numbers.

$6 \div (-0.75) = \underline{\hspace{1cm}}$

Since one number is positive and one is negative, the quotient is \_\_\_\_\_.

*Estimate:*  $6 \div (-1) = \underline{\hspace{1cm}}$

Is your answer reasonable? \_\_\_\_\_