

Dividing by a Whole Number

Find $196 \div 32$.

Step 1

Put the decimal point in the dividend. Divide. Put the decimal in the quotient right above the decimal in the dividend. Subtract.

$$\begin{array}{r} 6. \\ 32 \overline{) 196.} \\ \underline{-192} \\ 4 \end{array}$$

Step 2

Add a zero after the decimal point in the dividend. Bring down the zero. Divide. Subtract.

$$\begin{array}{r} 6.1 \\ 32 \overline{) 196.0} \\ \underline{-192} \downarrow \\ 40 \\ \underline{-32} \\ 8 \end{array}$$

Step 3

Repeat Step 2 until there is no remainder.

$$\begin{array}{r} 6.125 \\ 32 \overline{) 196.000} \\ \underline{-192} \downarrow \\ 40 \downarrow \\ \underline{-32} \downarrow \\ 80 \downarrow \\ \underline{-64} \downarrow \\ 160 \downarrow \\ \underline{-160} \\ 0 \end{array}$$

Remember, you can use estimation to see if your answer is reasonable: $180 \div 30 = 6$. You can check your answer using multiplication: $32 \times 6.125 = 196$

Find the quotient.

1. $11 \overline{) 93.5}$

2. $25 \overline{) 1.75}$

3. $6 \overline{) 573}$

4.
$$\begin{array}{r} 6. \\ 3 \overline{) 18.6} \\ \underline{-18} \\ 0 \end{array}$$

5.
$$\begin{array}{r} 3. \\ 7 \overline{) 22.61} \\ \underline{-21} \end{array}$$

6.
$$\begin{array}{r} \$ 3. \\ 12 \overline{) \$44.40} \\ \underline{-36} \\ 8 \end{array}$$

7. Cherri said that $0.9 \div 3 = 0.3$. Is she correct? Explain why or why not.
