

G5-M2-Lesson 20

1. Divide. Then check with multiplication.

a. $48 \div 21$

I do a quick mental estimation to find the quotient.
 $40 \div 20 = 2$

$$\begin{array}{r} 2 \text{ R } 6 \\ 21 \overline{) 48} \\ \underline{- 42} \\ 6 \end{array}$$

The actual quotient is 2 with a remainder of 6.

Check:

$$\begin{array}{r} 21 \\ \times 2 \\ \hline 42 \end{array} \qquad \begin{array}{r} 42 \\ + 6 \\ \hline 48 \end{array}$$

I'll check my answer by multiplying the divisor and the quotient, 21×2 . Then, I'll add the remainder of 6.

This 48 matches the original dividend in the problem, which means I divided correctly. The quotient is 2 with a remainder of 6.

b. $79 \div 38$

I do a quick mental estimation to find the quotient.
 $80 \div 40 = 2$

$$\begin{array}{r} 2 \text{ R } 3 \\ 38 \overline{) 79} \\ \underline{- 76} \\ 3 \end{array}$$

The actual quotient is 2 with a remainder of 3.

Check:

$$\begin{array}{r} 38 \\ \times 2 \\ \hline 76 \end{array} \qquad \begin{array}{r} 76 \\ + 3 \\ \hline 79 \end{array}$$

After checking, I see that 79 does match the original dividend.

Area is equal to length times width. So, I can use the area divided by the length to find the width.

$$A = l \times w \quad \text{and} \quad A \div l = w$$

2. A rectangular 95-square-foot vegetable garden has a length of 19 feet. What is the width of the vegetable garden?

$$95 \div 19 = 5$$

I'll do a quick mental estimation to help me solve.

$$100 \div 20 = 5$$

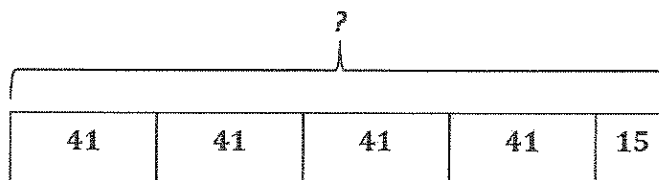
$$\begin{array}{r} 5 \\ 19 \overline{) 95} \\ - 95 \\ \hline 0 \end{array}$$

The quotient of 5 means the width is 5 feet, with 0 feet remaining.

The width of the vegetable garden is 5 feet.

3. A number divided by 41 has a quotient of 4 with 15 as a remainder. Find the number.

In other words, 4 units of 41, plus 15 more, is equal to what number?



$$\begin{array}{r} 4 \text{ R } 15 \\ 41 \overline{) ?} \end{array}$$

I know I have to find the missing dividend.

I can multiply the divisor of 41 and the quotient of 4 to get 164.

$$\begin{array}{r} 41 \\ \times 4 \\ \hline 164 \end{array}$$

$$\begin{array}{r} 164 \\ + 15 \\ \hline 179 \end{array}$$

I need to add 164 and the remainder of 15 to get a total of 179. The dividend is 179.

The number is 179.