

MY Homework

Lesson 3

Relate Division and Subtraction

Homework Helper

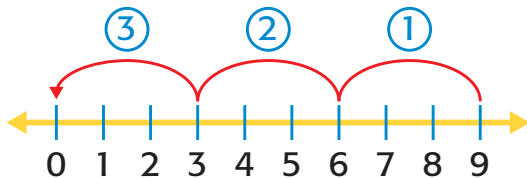


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Perry divides 9 berries evenly among 3 fruit cups. How many berries does Perry put in each cup? Write a division sentence with a symbol for the unknown. Solve.

$$9 \div 3 = \square \leftarrow \text{unknown}$$

One Way Use a number line.



Subtract equal groups of 3 until you reach 0. There are 3 groups.

So, $9 \div 3 = 3$.

Another Way Use repeated subtraction.

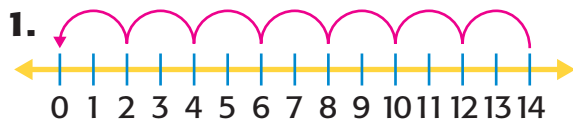
$$\begin{array}{r} \textcircled{1} \\ 9 \\ - 3 \\ \hline 6 \end{array} \quad \begin{array}{r} \textcircled{2} \\ 6 \\ - 3 \\ \hline 3 \end{array} \quad \begin{array}{r} \textcircled{3} \\ 3 \\ - 3 \\ \hline 0 \end{array}$$

Keep subtracting 3 until you reach 0. You subtracted 3 groups.

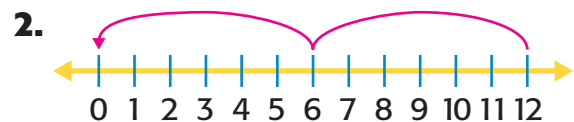
So, $9 \div 3 = 3$.

Practice

Use repeated subtraction to divide.



$$14 \div 2 = \underline{7}$$



$$12 \div 6 = \underline{2}$$

3. $28 \div 7 = \underline{4}$

$$\begin{array}{r} 28 \\ - 7 \\ \hline 21 \end{array} \quad \begin{array}{r} 21 \\ - 7 \\ \hline 14 \end{array} \quad \begin{array}{r} 14 \\ - 7 \\ \hline 7 \end{array} \quad \begin{array}{r} 7 \\ - 7 \\ \hline 0 \end{array}$$

4. $30 \div 10 = \underline{3}$

$$\begin{array}{r} 30 \\ - 10 \\ \hline 20 \end{array} \quad \begin{array}{r} 20 \\ - 10 \\ \hline 10 \end{array} \quad \begin{array}{r} 10 \\ - 10 \\ \hline 0 \end{array}$$



Problem Solving

Algebra Write a division sentence with a symbol for the unknown. Then solve.

5. There are 24 juice bottles, with 6 bottles in each package. How many packages of juice bottles are there?

$24 \div 6 = \blacksquare$; 4 packages

6. A mechanic equally divides 4 hours of his time to repair 8 cars. How many cars does he repair in one hour?

$8 \div 4 = \blacksquare$; 2 cars

7. On Monday, Helen's math teacher gave the class 45 problems to finish by Friday. Helen will do the same number of problems each day. How many problems will she do on Friday?

$45 \div 5 = \blacksquare$; 9 problems

Vocabulary Check



Choose the correct word(s) to complete each sentence.

number line repeated subtraction

8. Skip count backwards on a number line to divide.
9. Use repeated subtraction to subtract equal groups repeatedly until you reach zero.

Test Practice

10. Sal made 6 cups of oatmeal for himself and his 2 brothers. Each received an equal number of cups of oatmeal. Which number sentence represents this problem?

- (A) $6 - 2 = 4$ (C) $6 \times 2 = 12$
(B) $6 \div 3 = 2$ (D) $6 - 3 = 3$