

Name

MY Homework

Lesson 9

Divide by 11 and 12

Homework Helper



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Jolene's little sister, Camille, is 36 months old.
How old is Camille in years?

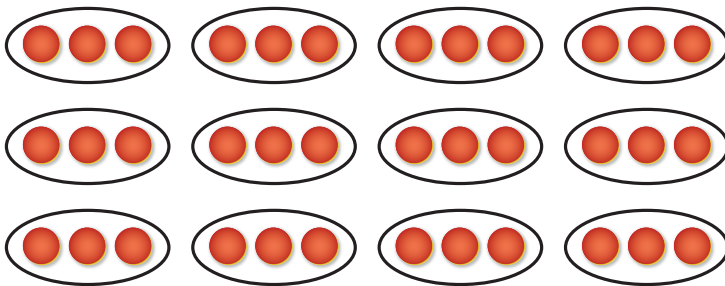
Find $36 \div 12$.

Think of division as a missing factor problem.

$$\begin{array}{c} 12 \times ? = 36 \\ \uparrow \\ \text{The missing factor is 3.} \\ \downarrow \\ 12 \times 3 = 36 \end{array}$$

So, $36 \div 12 = 3$. Camille is 3 years old.

Check using models. Partitioning 36 counters into 12 groups will result in 3 counters in each group.



Practice

Find the number of equal groups.

1. 77 counters
11 in each group

There will be 7 groups.

2. 60 counters
12 in each group

There will be 5 groups.

Use repeated subtraction to divide.

3. $48 \div 12 = \underline{4}$

$$\begin{array}{r} 48 \\ -12 \\ \hline 36 \\ -12 \\ \hline 24 \\ -12 \\ \hline 12 \\ -12 \\ \hline 0 \end{array}$$

4. $33 \div 11 = \underline{3}$

$$\begin{array}{r} 33 \\ -11 \\ \hline 22 \\ -11 \\ \hline 11 \\ -11 \\ \hline 0 \end{array}$$

Algebra Use the inverse operation to find each unknown.

5. $88 \div 11 = \blacksquare$

$11 \times \underline{8} = 88$

The unknown is 8.

6. $12 \overline{)72}$

$12 \times \underline{6} = 72$

The unknown is 6.



Problem Solving

7. Tim is saving to buy a new cell phone that costs \$84. If he saves \$12 each month, in how many months will he have \$84?

7 months

8. A grocery store has 60 boxes of cereal. There are 12 different kinds of cereal. If there are an equal number of boxes of each kind, how many boxes of each kind are there?

5 boxes

9. **Mathematical PRACTICE** **Keep Trying** Malcolm's family has 3 cats, 2 dogs, 2 rabbits, and 4 hamsters. Malcolm spends an equal amount of time each day playing with each animal. If he spends 55 minutes altogether, how much time did he spend with each animal?

5 minutes

Test Practice

10. Which number sentence can you use to check your answer when finding $44 \div 11$?

(A) $4 + 11 = 15$

(C) $4 \times 11 = 44$

(B) $44 - 11 = 33$

(D) $44 + 11 = 55$