

MY Homework

Lesson 6

Divide by 8 and 9

Homework Helper

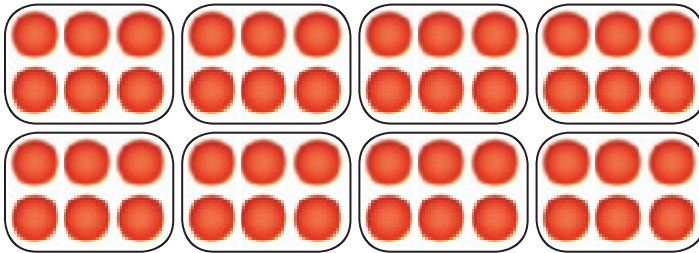


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Samantha bought a set of silverware with 48 pieces. She divides the pieces evenly among 8 sections of a tray. How many pieces of silverware are in each section of the tray?

One Way Use counters to partition.

Use 48 counters to model dividing evenly among 8 groups.



There are 6 counters in each group.

Another Way Use repeated subtraction.

$$\begin{array}{r}
 \textcircled{1} \\
 48 \\
 - 8 \\
 \hline
 40
 \end{array}
 \begin{array}{r}
 \textcircled{2} \\
 40 \\
 - 8 \\
 \hline
 32
 \end{array}
 \begin{array}{r}
 \textcircled{3} \\
 32 \\
 - 8 \\
 \hline
 24
 \end{array}
 \begin{array}{r}
 \textcircled{4} \\
 24 \\
 - 8 \\
 \hline
 16
 \end{array}
 \begin{array}{r}
 \textcircled{5} \\
 16 \\
 - 8 \\
 \hline
 8
 \end{array}
 \begin{array}{r}
 \textcircled{6} \\
 8 \\
 - 8 \\
 \hline
 0
 \end{array}$$

8 is subtracted 6 times.

$48 \div 8 = 6$. So, there were 6 pieces of silverware in each section.

Practice

Use counters to find the number of equal groups or the number in each group.

1. 27 counters
9 equal groups

_____ in each group

So, $27 \div 9 = \underline{\hspace{2cm}}$.

2. 54 counters

_____ equal groups

6 in each group

So, $54 \div \underline{\hspace{2cm}} = 6$.

3. 32 counters
8 equal groups

_____ in each group

So, $32 \div 8 = \underline{\hspace{2cm}}$.

4. Use repeated subtraction to divide.

$$63 \div 9 = \underline{\quad}$$

Algebra Use the inverse operation to find each unknown.

5. $16 \div 8 = \blacksquare$

$$\blacksquare \times 8 = 16$$

$$\blacksquare = \underline{\quad}$$

6. $\blacksquare \div 9 = 4$

$$4 \times 9 = \blacksquare$$

$$\blacksquare = \underline{\quad}$$

7. $64 \div 8 = \blacksquare$

$$\blacksquare \times 8 = 64$$

$$\blacksquare = \underline{\quad}$$



Problem Solving

Mathematical PRACTICE



Use Algebra For Exercises 8 and 9, write a division sentence with a symbol for the unknown. Then solve.

8. Michael, the chef, has 18 pineapple slices to divide evenly among 9 fruit cups. How many pineapple slices will he put in each cup?

9. Kayla counted 40 chairs in the auditorium. There were 8 chairs in each row. How many rows of chairs were there?

10. Simon sold 72 packages of popcorn for the fundraiser. There are 9 packages in each box. If he has delivered 27 packages, how many boxes does Simon have left to deliver?

Test Practice

11. Which number sentence uses the inverse operation to find the unknown in the division sentence $81 \div 9 = \blacksquare$?

(A) $90 - 9 = 81$

(C) $8 \times 9 = 72$

(B) $72 + 9 = 81$

(D) $9 \times 9 = 81$