Name

Divide by 8 and 9

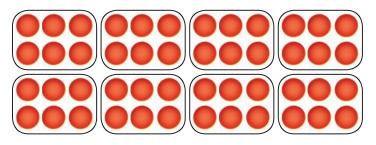
Lesson 6

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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.



MY Homework

There are 6 counters in each group.

Another Way Use repeated subtraction.

1	2	3	4	5	6
48	4 0	3 2	2 4	🖌 16	💉 8
<u>- 8</u>	$\begin{array}{r} 40 \\ - 8 \\ \hline 32 \end{array}$	<u> </u>	<u> </u>	<u> </u>	<u> </u>
40	32	24	16	8	0

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

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9 equal groups

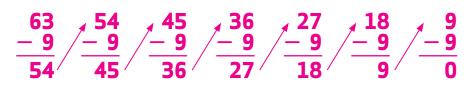
2. 54 counters

9 equal groups **3** in each group 6 in each group

3. 32 counters 8 equal groups 4 in each group So, $27 \div 9 = 3$. So, $54 \div 9 = 6$. So, $32 \div 8 = 4$

4. Use repeated subtraction to divide.

 $63 \div 9 = -7$



Algebra Use the inverse operation to find each unknown.

5. 16 ÷ 8 = ■	6. ■ ÷ 9 = 4	7. 64 ÷ 8 = ■
■ × 8 = 16	4 × 9 = ■	■ × 8 = 64
■ = _2	36	8



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?

18 ÷ 9 = ■; 2 pineapple slices

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

40 ÷ 8 = ■; 5 rows

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?

5 boxes

Test Practice

- **11.** Which number sentence uses the inverse operation to find the unknown in the division sentence $81 \div 9 = \blacksquare$?
 - ④ 90 − 9 = 81
 - B 72 + 9 = 81
- (C) $8 \times 9 = 72$ (D) $9 \times 9 = 81$