

MY Homework

Lesson 5

Divide by 5

Homework Helper



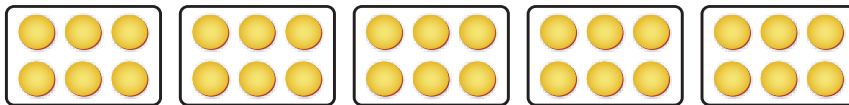
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Rudy spent \$30 for 5 car models. Each model costs the same amount. How much did each car model cost?

Find $\$30 \div 5$, or $5 \overline{) \$30}$.

One Way Use counters and partition.

Partition 30 counters equally among 5 groups until there are none left.



There are 5 equal groups of 6.

Another Way Use repeated subtraction.

Subtract 5 until you get to 0. Count the number of times you subtracted.

$$\begin{array}{r}
 \textcircled{1} \\
 30 \\
 - 5 \\
 \hline
 25
 \end{array}
 \quad
 \begin{array}{r}
 \textcircled{2} \\
 25 \\
 - 5 \\
 \hline
 20
 \end{array}
 \quad
 \begin{array}{r}
 \textcircled{3} \\
 20 \\
 - 5 \\
 \hline
 15
 \end{array}
 \quad
 \begin{array}{r}
 \textcircled{4} \\
 15 \\
 - 5 \\
 \hline
 10
 \end{array}
 \quad
 \begin{array}{r}
 \textcircled{5} \\
 10 \\
 - 5 \\
 \hline
 5
 \end{array}
 \quad
 \begin{array}{r}
 \textcircled{6} \\
 5 \\
 - 5 \\
 \hline
 0
 \end{array}$$

Groups of 5 were subtracted 6 times.

Since $\$30 \div 5 = \6 , each model cost \$6.

Practice

Partition to find the number of equal groups or how many are in each group.

1. 45 counters

5 equal groups

9 in each group

2. 5 counters

5 equal groups

1 in each group

3. 20 counters

5 equal groups

4 in each group

4. 50 counters

10 equal groups

5 in each group

5. **Algebra** Draw an array and use the inverse operation to find the unknown.

$$\blacksquare \times 5 = 15$$

$$? \div 3 = 5$$

$$\blacksquare = \underline{3}$$

$$? = \underline{15}$$

Sample array shown.

My Work!



Problem Solving


Write a division sentence with a symbol for the unknown for Exercises 6 and 7. Then solve.

6. Antonio scored 40 points on his math test. There were 5 questions on the test, and each was worth the same number of points. How many points did Antonio score for each question?

$$40 \div 5 = \blacksquare; 8 \text{ points}$$

7. Lunch costs \$5. Marcus has \$35. How many days can he buy lunch?

$$\$35 \div \$5 = \blacksquare; 7 \text{ days}$$

8. **Mathematical PRACTICE**  **Model Math** Today 25 girls and 20 boys rode their bikes to school. Each bike rack at school holds 5 bikes. How many bike racks were filled?

$$9 \text{ racks}$$

Test Practice

9. Which number sentence represents this repeated subtraction exercise?

$$\begin{array}{r} 20 \\ - 5 \\ \hline 15 \end{array} \quad \begin{array}{r} 15 \\ - 5 \\ \hline 10 \end{array} \quad \begin{array}{r} 10 \\ - 5 \\ \hline 5 \end{array} \quad \begin{array}{r} 5 \\ - 5 \\ \hline 0 \end{array}$$

- (A) $20 \div 5 = 4$ (C) $20 - 20 = 0$
(B) $20 \div 2 = 10$ (D) $20 - 10 = 10$