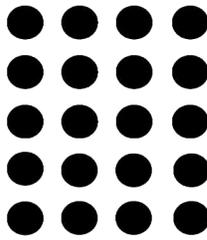


1. Sharon washes 20 bowls. She then dries and stacks the bowls equally into 5 piles. How many bowls are in each pile?

$$20 \div 5 = \underline{\quad 4 \quad}$$

$$5 \times \underline{\quad 4 \quad} = 20$$



I can draw an array with 5 rows to represent Sharon's piles of bowls. I can keep drawing columns of 5 dots until I have a total of 20 dots. The number in each row shows how many bowls are in each pile.

What is the meaning of the unknown factor and quotient? *It represents the size of the group.*

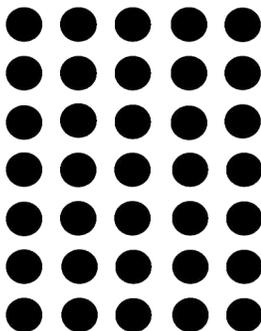
I know that the quotient is the answer you get when you divide one number by another number.

I can see from my array that both the unknown factor and quotient represent the size of the group.

2. John solves the equation $\underline{\quad} \times 5 = 35$ by writing and solving $35 \div 5 = \underline{\quad}$. Explain why John's method works.

John's method works because in both problems there are 7 groups of 5 and a total of 35. The quotient in a division equation is like finding the unknown factor in a multiplication equation.

The blanks in John's two equations represent the number of groups. Draw an array to represent the equations.



The answer to both of John's equations is 7. I know 7 represents the number of groups, so I can draw 7 rows in my array. Then I can draw 5 dots in each row to show the size of the group for a total of 35 dots in my array.

Name _____

Date _____

1. Mr. Hannigan puts 12 pencils into boxes. Each box holds 4 pencils. Circle groups of 4 to show the pencils in each box.



Mr. Hannigan needs _____ boxes.

_____ \times 4 = 12

12 \div 4 = _____

2. Mr. Hannigan places 12 pencils into 3 equal groups. Draw to show how many pencils are in each group.

There are _____ pencils in each group.

3 \times _____ = 12

12 \div 3 = _____

3. Use an array to model Problem 1.

a. _____ \times 4 = 12

12 \div 4 = _____

The number in the blanks represents

_____.

b. 3 \times _____ = 12

12 \div 3 = _____

The number in the blanks represents

_____.

4. Judy washes 24 dishes. She then dries and stacks the dishes equally into 4 piles. How many dishes are in each pile?

$$24 \div 4 = \underline{\hspace{2cm}}$$

$$4 \times \underline{\hspace{2cm}} = 24$$

What is the meaning of the unknown factor and quotient? _____

5. Nate solves the equation $\underline{\hspace{1cm}} \times 5 = 15$ by writing and solving $15 \div 5 = \underline{\hspace{1cm}}$. Explain why Nate's method works.
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6. The blanks in Problem 5 represent the number of groups. Draw an array to represent the equations.