3.OA.1, 3.OA.3, 3.OA.4, 3.OA.5, 3.OA.7, 3.OA.9

MY Homework

Lesson 5

Multiply by 9

Homework Helper

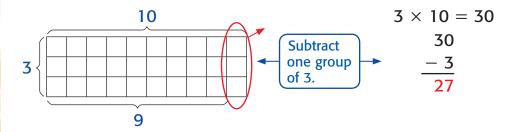


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Delia counted 9 petals on each flower she picked. If she picked 3 flowers, how many petals are there in all?

Find 3×9 .

One Way Subtract from a known 10s fact.



Another Way Use patterns.

Starting with the product 18, the multiples of 9 follow a pattern. The tens digit in each product is 1 less than the factor that is not 9. The sum of the digits in the product is 9.

$$3 - 1 = 2$$

$$3 \times 9 = 27$$

$$2 + 7 = 9$$

So, there are 27 petals in all.

Practice

Use the Commutative Property to find each product or missing factor.

Draw an array for a known 10s fact. Then subtract 1 from each row to find the product.

Known fact: ____ × ___ = ___ Known fact: ___ × ___ = ___

Algebra Use the Commutative Property to find each unknown.

$$\times$$
 9 = 36

The unknown is ——.

7.
$$\blacksquare \times 9 = 72$$

The unknown is _____.

Problem Solving

8. PRACTICE Justify Conclusions Ty works 9 hours a day and earns \$6 an hour. Cal works 6 hours a day and earns \$9 an hour. If they both work 5 days, who earns more money? Who works longer? Explain.

Test Practice

- 9. Anna lives 9 blocks from school. How many blocks does she walk to school in 3 days?
 - (A) 6 blocks
- © 12 blocks
- B 9 blocks
 D 27 blocks