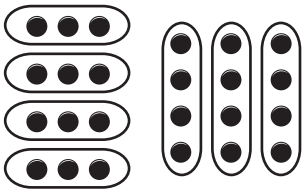
Name _____ Date _____

Multiplication Properties and Division Rules

CA Standards
KEY NS 3.0, AF 1.0

Commutative Property

When you change the order of the factors, the product stays the same



$4 \times 3 = 12$ $3 \times 4 = 12$

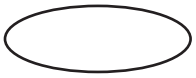
Identity Property

When you multilply any number by 1, the product is equal to that number.

$1 \times 9 = 9$

Zero Property

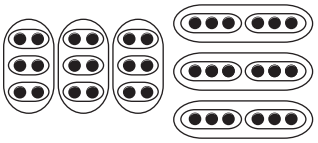
When you multiply any number by 0, the product is 0.



$6 \times 0 = 0$

Associative Property

When you group factors in different ways, the product stays the same.



$(3 \times 2 = 3 \quad 3 \times 2 = 3)$

$6 \times 3 = 18$ $3 \times 6 = 18$

Use properties and rules to solve. If there is no solution, explain why.

1. $1 \times 43 = \square$

_____

2. $5 \times (4 \times 3) = (\square \times 4) \times 3$

_____

3. $4 \div 4 = \square$

_____

4. $\square \times 12 = 0$

_____

5. $\square \div 5 = 0$

_____

6. $9 \times \square = 9$

_____

7. $5 \times 3 = 3 \times \square$

_____

8. $28 \div \square = 28$

_____

9. $4 \div 0 = \square$

_____

Writing Math What is the product of $937{,}568 \times 0 \times 622{,}001$? How do you know?

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