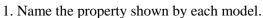
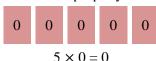
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4.OA.A.1 Using Models in Multiplication Properties

4.OA.A.1: Interpret a multiplication equation as a comparison.





 1×4

::::

 $2 \times 5 = 5 \times 2$

Solution:

Solution:

2. Name the property used in the following equations.

a.
$$1 \times 30 = 30$$

b.
$$(5 \times 4) \times 7 = 5 \times (4 \times 7)$$

c.
$$9 \times 18 = 9 \times (10 + 8)$$

d.
$$16 \times 7 = 7 \times 16$$

Solution:

a. _____

Solution:

b.

c.

d. _____

3. Use one of multiplication properties to find the product.

a.
$$3 \times 18$$

b.
$$1 \times 17 \times 1$$

c.
$$12 \times 0 \times 3$$

d.
$$2 \times 14$$

Solution:

a.

u. _____

d

4. Use one of multiplication properties to find the missing number. Name the property used.

a.
$$(2 \times 8) \times 4 =$$
_____ $\times (8 \times 4)$

b.
$$5 \times 19 = 5 \times (10 + ___)$$

c.
$$3 \times 17 = (3 \times __) + (3 \times 7)$$

d.
$$9 \times 5 =$$
____ $\times 9$

Solution:

a.

h

c. ____

d.

5. In a bus, there are 7 rows with 2 seats each. Every seat can accommodate 3 people. How many people can the bus accommodate at a time?

Solution:

6. Sandra bought 7 packs of soap. Each pack of soap costs \$12. Which statement uses the distributive property of multiplication to solve the problem?

A.
$$7 \times 12$$

B.
$$7 \times 10 + 7 \times 2$$

Solution:

C. $12 \times 7 \times 2$

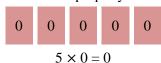
D. None of the Above

4.OA.A.1 Using Models in Multiplication Properties

4.OA.A.1: Interpret a multiplication equation as a comparison.

Answer Key

1. Name the property shown by each model.

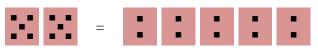






 1×4





 $2 \times 5 = 5 \times 2$ Solution:
Commutative Property

2. Name the property used in the following equations.

a.
$$1 \times 30 = 30$$

b.
$$(5 \times 4) \times 7 = 5 \times (4 \times 7)$$

c.
$$9 \times 18 = 9 \times (10 + 8)$$

d.
$$16 \times 7 = 7 \times 16$$

Solution:

a. Identity Property

3. Use one of multiplication properties to find the product.

a.
$$3 \times 18$$

b.
$$1 \times 17 \times 1$$

c.
$$12 \times 0 \times 3$$

d.
$$2 \times 14$$

Solution:

a.
$$(3 \times 10) + (3 \times 8) = 30 + 24 = 54$$

b.
$$17 \times 1 = 17$$

c.
$$0 \times 3 = 0$$

d.
$$(2 \times 10) + (2 \times 4) = 20 + 8 = 28$$

4. Use one of multiplication properties to find the missing number. Name the property used.

a.
$$(2 \times 8) \times 4 = _{\underline{}} \times (8 \times 4)$$

b.
$$5 \times 19 = 5 \times (10 + 9)$$

c.
$$3 \times 17 = (3 \times 10) + (3 \times 7)$$

d.
$$9 \times 5 = 5 \times 9$$

a. Associative Property

b. <u>Distributive Property</u>

c. <u>Distributive Property</u>

d. Commutative Property

5. In a bus, there are 7 rows with 2 seats each. Every seat can accommodate 3 people. How many people can the bus accommodate at a time?

Solution:

$$7 \times (2 \times 3) = 7 \times 6 = 42$$

Answer: 42 people

6. Sandra bought 7 packs of soap. Each pack of soap costs \$12. Which statement uses the distributive property of multiplication to solve the problem?

A.
$$7 \times 12$$

B.
$$7 \times 10 + 7 \times 2$$

C.
$$12 \times 7 \times 2$$