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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. Name the property shown by each model.

2. Name the property used in the following equations.
a. $\quad 1 \times 30=30$
b. $\quad(5 \times 4) \times 7=5 \times(4 \times 7)$
c. $\quad 9 \times 18=9 \times(10+8)$
d. $\quad 16 \times 7=7 \times 16$

## Solution:

a. $\qquad$
b. $\qquad$
c. $\qquad$
d. $\qquad$
3. Use one of multiplication properties to find the product.
a. $\quad 3 \times 18$
b. $\quad 1 \times 17 \times 1$
c. $\quad 12 \times 0 \times 3$
d. $2 \times 14$

## Solution:

a. $\qquad$
b. $\qquad$
c. $\qquad$
d. $\qquad$
4. Use one of multiplication properties to find the missing number. Name the property used.

## Solution:

a. $\qquad$
b. $\qquad$
c. $\qquad$
d. $\qquad$

Solution:
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?
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. $12 \times 7 \times 2$
D. None of the Above

## Solution:

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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. Name the property shown by each model.


$1 \times 4$

| Solution: |
| :--- |
| Identity Property |


$2 \times 5=5 \times 2$
Solution:
Commutative Property
2. Name the property used in the following equations.
a. $\quad 1 \times 30=30$
b. $\quad(5 \times 4) \times 7=5 \times(4 \times 7)$
c. $\quad 9 \times 18=9 \times(10+8)$
d. $\quad 16 \times 7=7 \times 16$

## Solution:

a. $\qquad$
b. $\qquad$
c. $\qquad$
d. $\qquad$
3. Use one of multiplication properties to find the product.

## Solution:

a. $\quad 3 \times 18$
b. $\quad 1 \times 17 \times 1$
c. $\quad 12 \times 0 \times 3$
d. $\quad 2 \times 14$
a. $(3 \times 10)+(3 \times 8)=30+24=54$
b. $\quad 17 \times 1=17$
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. $(2 \times 8) \times 4=2 \times(8 \times 4)$
b. $5 \times 19=5 \times\left(10+\frac{9}{}\right)$
c. $\quad 3 \times 17=\left(3 \times \frac{10}{}\right)+(3 \times 7)$
d. $\quad 9 \times 5=5 \times 9$

| Solution: |  |
| :---: | :---: |
| a. | Associative Property |
| b. | Distributive Property |
| c. | Distributive Property |
| 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. $12 \times 7 \times 2$

## Solution:

B. $7 \times 10+7 \times 2$
D. None of the Above

