## tutorified

## Determining Properties of Multiplication

1. Name the property of multiplication used in the expressions below.
a. $27 \times 0=0$
b. $1 \times 1104=1104$
c. $25 \times 114=114 \times 25$
d. $14 \times 130=14 \times(100+30)$
e. $(25 \times 8) \times 50=(8 \times 50) \times 25$
2. Find the missing number.
a. $25 \times 70=$ $\qquad$ $\times 25$
b. $135 \times 20=(20 \times$ __ $)+(20 \times 35)$
c. $9 \times 257=9 \times(200+$ $\qquad$ _)
d. $(11 \times 40) \times 4=(\ldots \times 40) \times 11$
3. Write a number sentence that illustrates the distributive property of multiplication. Find the product.
a. $15 \times 105$
b. $28 \times 230$
c. $11 \times 210$
d. $8 \times 57$
e. $14 \times 89$

## Solution:

a.
b.
c.
d.
e.

## Solution:

a.
b.
c.
d.

## Solution:

a.
b.
c.
d.
e.

Solution:

## Solution:

## Solution:

Solution: statement uses the distributive property of multiplication correctly to solve the equation?
a. $6 \times 10+6 \times 7$
b. $10+7 \times 6$
c. $10 \times 7+6$
d. $6 \times 17$

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## Determining Properties of Multiplication

1. 

a. Zero Property of Multiplication
b. Identity Property of Multiplication
c. Commutative Property of Multiplication
d. Distributive Property of Multiplication
e. Associative Property of Multiplication
2.
a. 70
b. 100
c. 57
d. 4
3.
a. $15 \times 105=15 \times(100+5)=15 \times 100+15 \times 5=1500+75=1575$
b. $28 \times 230=28 \times(200+30)=28 \times 200+28 \times 30=5600+840=6440$
c. $11 \times 210=11 \times(200+10)=11 \times 200+11 \times 10=2200+110=2310$
d. $8 \times 57=8 \times(50+7)=8 \times 50+8 \times 7=400+56=456$
e. $14 \times 89=14 \times(50+39)=14 \times 50+14 \times 39=700+546=1246$
4. $\$ 50$
5. $25 \times 8=(15+10) \times 8=120+80=200$ cookies
6. 34
7. A

