

Multiplication Properties

Grade 5 Multiplication Worksheet Date:

Name:__

LET'S MAKE LEARNING FUN

- 1. Using distributive property, find the product of the following.
 - a. 32×85
 - b. 31 × 316
 - c. 72×4
 - d. 17×65

Answ	ver:
a.	
b.	
с.	
d.	

2. The price of 12 cupcakes is \$3. Which of these is the price of 12 dozens of cupcakes?

a.	\$45	с.	\$144
b.	\$24	d.	\$36

3. If Julie will receive around 7 eggs from every house, and there are 5 houses in a block, how many eggs will he receive from each block?

Answer:

- 4. Which is the missing number? $85 \times 50 = (50 \times ___) + (50 \times 35)$
 - a. 20 c. 50
 - b. 30 d. 40

5. Explain how you can use distributive property to find the square of 56.

Solution:

- 6. Give a numeric expression that shows the following properties of multiplication.
 - a. Zero Property
 - b. Identity Property
 - c. Associative Property
 - d. Distributive Property
 - e. Commutative Property

Answ	/er:			
a.				
b.				
с.				
d.				
e.				

7. Use the distributive property to find the missing variable.

a.
$$13 \times 10 = (10 \times 10) + (m \times 10)$$

b.
$$8 \times 75 = (8+50) + (8+r)$$

c.
$$15 \times 55 = (10 \times m) + (5 \times 55)$$

d.
$$150 \times 30 = (100 \times 30) + (m \times 30)$$

e.
$$74 \times 200 = (m \times 200) + (4 \times 200)$$



Multiplication Properties

Grade 5 Multiplication Answer Sheet

1. Using distributive property, find the product of the following.

a.	32×85
b.	31×316
c.	72×4
d.	17×65

swer:				
2,720				
9,796				
288				
$1,\!105$				
	2,720 9,796 288	2,720 9,796 288	2,720 9,796 288	2,720 9,796 288

2. The price of 12 cupcakes is \$3. Which of these is the price of 12 dozens of cupcakes?

3. If Julie will receive around 7 eggs from every house, and there are 5 houses in a block, how many eggs will he receive from each block?

Answer: 35 eggs

4. Which is the missing number? $85 \times 50 = (50 \times __) + (50 \times 35)$

Answer: d. 50 5. Explain how you can use distributive property to find the square of 56.

Answer: (Hint: The square of a number is the number multiplied by the same number.)

 $85 \times 85 = 85 \times (100 - 15) = 8,500 - 1,275 = 7,225$

- 6. Give a numeric expression that shows the following properties of multiplication.
 - a. Zero Property
 - b. Identity Property
 - c. Associative Property
 - d. Distributive Property
 - e. Commutative Property

Answer:

- a. $5 \times 0 = 5$
- b. $7,250 \times 1 = 7,250$
- c. $(7 \times 2) \times 5 = 7 \times (2 \times 5)$
- d. $7 \times 25 = 7 \times (20 + 5) = 7 \times 20 + 7 \times 5$
- e. $7 \times 5 = 5 \times 7$
- 7. Use the distributive property to find the missing variable.

a. $13 \times 10 = (10 \times 10) + (m \times 10)$

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Answer: m = 3
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b. $8 \times 75 = (8 \times 50) + (8 \times m)$

Answer: m = 25

c. $15 \times 55 = (10 \times m) + (5 \times 55)$

Answer:		
m = 55		

d. $150 \times 30 = (100 \times 30) + (m \times 30)$

Answer: m = 50

e. $74 \times 200 = (m \times 200) + (4 \times 200)$

Answer:		
m = 70		