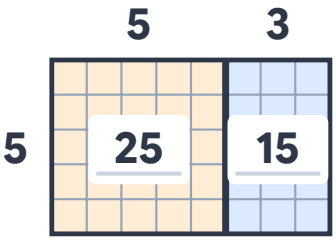
Name _____ Date _____

The Distributive Property

A line splits each rectangle into two parts. Add their areas.

Write the area inside each part. Then fill in the equation.

1. Example

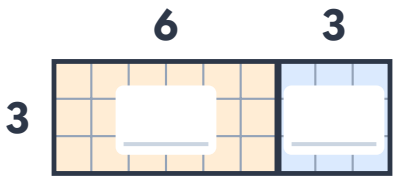


$5 \times 8 = 5 \times (\ 5\ + \ 3\ )$

$= 5 \times \ 5\ + 5 \times \ 3\ $

$= \ 25\ + \ 15\ = \ 40\ $

2.

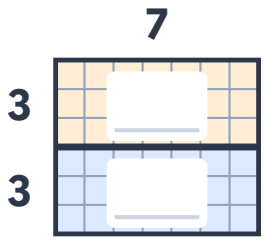


$3 \times 9 = 3 \times (\ \ + \ \ )$

$= 3 \times \ \ + 3 \times \ \ $

$= \ \ + \ \ = \ \ $

3.

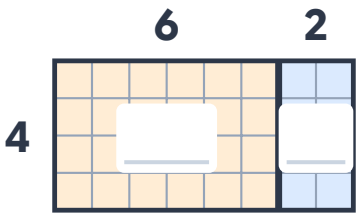


$6 \times 7 = (\ \ + \ \ ) \times 7$

$= \ \ \times 7 + \ \ \times 7$

$= \ \ + \ \ = \ \ $

4.

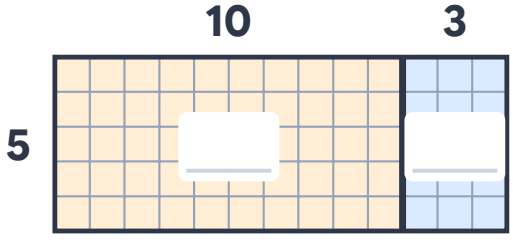


$4 \times 8 = 4 \times (\ \ + \ \ )$

$= 4 \times \ \ + 4 \times \ \ $

$= \ \ + \ \ = \ \ $

5.



$5 \times 13 = 5 \times (\ \ + \ \ )$

$= 5 \times \ \ + 5 \times \ \ $

$= \ \ + \ \ = \ \ $

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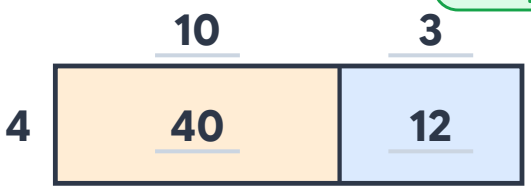
Name _____ Date _____

The Distributive Property

Split a number by place value. Find each part, then add.

Split the number into tens and ones. Write the area of each part.

1. Example



$4 \times 13 = 4 \times (10 + 3)$

$= 40 + 12 = 52$

2.



$6 \times 14 = 6 \times (__ + __)$

$= __ + __ = __$

3.



$3 \times 27 = 3 \times (__ + __)$

$= __ + __ = __$

4.



$5 \times 19 = 5 \times (__ + __)$

$= __ + __ = __$

Split the number into hundreds, tens and ones.

5.

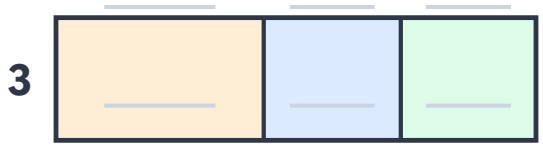


$2 \times 146 = 2 \times (__ + __ + __)$

$= __ + __ + __$

$= __$

6.



$3 \times 215 = 3 \times (__ + __ + __)$

$= __ + __ + __$

$= __$

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Name _____ Date _____

The Distributive Property

Find the missing numbers in each area model.

Write the missing side lengths and areas. Then finish the equation.

1. Example

	10	3
6	60	18

$6 \times (10 + _3_) = 60 + 18$

$= _78_$

2.

	10	7
____	40	28

$____ \times (10 + 7) = 40 + 28$

$= ____$

3.

	10	____
8	80	____

$8 \times (10 + ____) = 80 + ____$

$= 112$

4.

	10	____
5	____	____
	16	

$5 \times (10 + ____) = ____ + ____$

$= ____$

5.

	____	8
3	90	24

$3 \times (____ + 8) = 90 + 24$

$= ____$

6.

	10	____
____	70	21

$____ \times (10 + ____) = 70 + 21$

$= ____$

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Name _____ Date _____

The Distributive Property

Use the distributive property to find each missing number.

Write the missing number.

Example

	10	4
5	50	20

$5 \times (10 + 4) = 50 + \underline{20}$

1. $3 \times (10 + 8) = 30 + ____$
2. $7 \times (8 + 3) = 7 \times 8 + 7 \times ____$
3. $____ \times (10 + 6) = 30 + 18$
4. $9 \times 12 = 9 \times (10 + ____)$
5. $(10 + 2) \times 7 = ____ + 14$
6. $6 \times 15 = 6 \times 10 + 6 \times ____$
7. $8 \times (10 + ____) = 80 + 56$
8. $4 \times (20 + 3) = ____ + 12$
9. $____ \times (30 + 2) = 150 + 10$
10. $5 \times 6 + 5 \times 3 = 5 \times ____$

Circle the equation that the rectangle shows.

11.

	10	8
4		

$4 \times 10 + 8$

$4 \times (10 + 8)$

$(4 + 10) \times 8$

12.

	20	5
6		

$6 \times 20 + 5$

$6 + 20 \times 5$

$6 \times 20 + 6 \times 5$

13.

	3
10	
2	

$(10 + 2) \times 3$

$10 \times 3 + 2$

$10 \times 2 + 3$

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Name _____ Date _____

The Distributive Property

Split both numbers into tens and ones. Then make your own split.

Split both numbers. Write the area of each part, then add.

1.

	10	4
10	100	40
2	20	8

$12 \times 14 = (10 + 2) \times (10 + 4)$

$= 100 + 40 + 20 + 8$

$= 168$

Example

2.

$13 \times 15 = (__ + __) \times (__ + __)$

$= __ + __ + __ + __$

$= __$

3.

$23 \times 16 = (__ + __) \times (__ + __)$

$= __ + __ + __ + __$

$= __$

Draw a line to split the rectangle into two easier parts. Write the equation.

4.

7 × 16

$7 \times 16 = 7 \times (__ + __)$

$= __ + __ = __$

5.

6 × 23

$6 \times 23 = 6 \times (__ + __)$

$= __ + __ = __$

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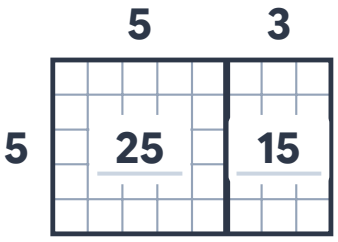
Name _____ Date _____

The Distributive Property

A line splits each rectangle into two parts. Add their areas.

Write the area inside each part. Then fill in the equation.

1. Example

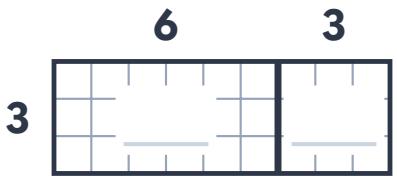


$5 \times 8 = 5 \times (\ 5\ +\ 3\ )$

$= 5 \times \ 5\ + 5 \times \ 3\ $

$=\ 25\ +\ 15\ =\ 40$

2.

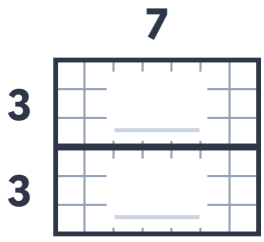


$3 \times 9 = 3 \times (\ ___\ +\ ___\ )$

$= 3 \times \ ___\ + 3 \times \ ___\ $

$=\ ___\ +\ ___\ =\ ___\ $

3.

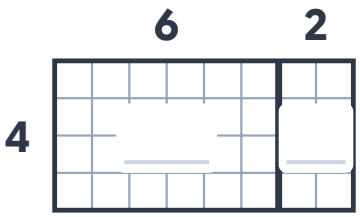


$6 \times 7 = (\ ___\ +\ ___\ ) \times 7$

$=\ ___\ \times 7 +\ ___\ \times 7$

$=\ ___\ +\ ___\ =\ ___\ $

4.

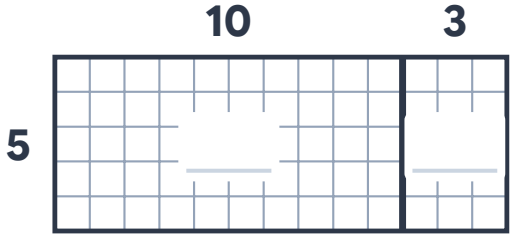


$4 \times 8 = 4 \times (\ ___\ +\ ___\ )$

$= 4 \times \ ___\ + 4 \times \ ___\ $

$=\ ___\ +\ ___\ =\ ___\ $

5.



$5 \times 13 = 5 \times (\ ___\ +\ ___\ )$

$= 5 \times \ ___\ + 5 \times \ ___\ $

$=\ ___\ +\ ___\ =\ ___\ $

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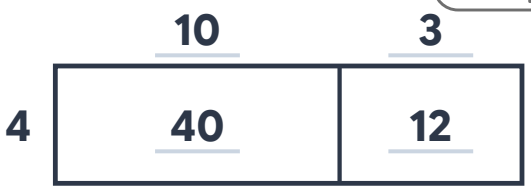
Name _____ Date _____

The Distributive Property

Split a number by place value. Find each part, then add.

Split the number into tens and ones. Write the area of each part.

1. Example



$4 \times 13 = 4 \times (\ 10\ +\ 3\ )$

$= 40 + 12 = 52$

2.



$6 \times 14 = 6 \times (\ ___\ +\ ___\ )$

$= ___\ + ___\ = ___\ $

3.



$3 \times 27 = 3 \times (\ ___\ +\ ___\ )$

$= ___\ + ___\ = ___\ $

4.



$5 \times 19 = 5 \times (\ ___\ +\ ___\ )$

$= ___\ + ___\ = ___\ $

Split the number into hundreds, tens and ones.

5.



$2 \times 146 = 2 \times (\ ___\ +\ ___\ +\ ___\ )$

$= ___\ + ___\ + ___\ $

$= ___\ $

6.



$3 \times 215 = 3 \times (\ ___\ +\ ___\ +\ ___\ )$

$= ___\ + ___\ + ___\ $

$= ___\ $

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Name _____ Date _____

The Distributive Property

Find the missing numbers in each area model.

Write the missing side lengths and areas. Then finish the equation.

1. Example

	10	3
6	60	18

$6 \times (10 + 3) = 60 + 18$

$= 78$

2.

	10	7
___	40	28

___ $\times (10 + 7) = 40 + 28$

$=$ ___

3.

	10	___
8	80	___

$8 \times (10 + $ ___ $) = 80 +$ ___

$= 112$

4.

	10	___
5	___	___
	16	

$5 \times (10 +$ ___ $) =$ ___ $+$ ___

$=$ ___

5.

	___	8
3	90	24

$3 \times ($ ___ $+ 8) = 90 + 24$

$=$ ___

6.

	10	___
___	70	21

___ $\times (10 +$ ___ $) = 70 + 21$

$=$ ___

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Name _____ Date _____

The Distributive Property

Use the distributive property to find each missing number.

Write the missing number.

Example

	10	4
5	50	20

$5 \times (10 + 4) = 50 + \underline{20}$

1. $3 \times (10 + 8) = 30 + ____$
2. $7 \times (8 + 3) = 7 \times 8 + 7 \times ____$
3. $____ \times (10 + 6) = 30 + 18$
4. $9 \times 12 = 9 \times (10 + ____)$
5. $(10 + 2) \times 7 = ____ + 14$
6. $6 \times 15 = 6 \times 10 + 6 \times ____$
7. $8 \times (10 + ____) = 80 + 56$
8. $4 \times (20 + 3) = ____ + 12$
9. $____ \times (30 + 2) = 150 + 10$
10. $5 \times 6 + 5 \times 3 = 5 \times ____$

Circle the equation that the rectangle shows.

11.

	10	8
4		

$4 \times 10 + 8$

$4 \times (10 + 8)$

$(4 + 10) \times 8$

12.

	20	5
6		

$6 \times 20 + 5$

$6 + 20 \times 5$

$6 \times 20 + 6 \times 5$

13.

	3
10	
2	

$(10 + 2) \times 3$

$10 \times 3 + 2$

$10 \times 2 + 3$

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Name _____ Date _____

The Distributive Property

Split both numbers into tens and ones. Then make your own split.

Split both numbers. Write the area of each part, then add.

1.

	10	4
10	100	40
2	20	8

$12 \times 14 = (10 + 2) \times (10 + 4)$

$= 100 + 40 + 20 + 8$

$= 168$

Example

2.

$13 \times 15 = (\quad + \quad) \times (\quad + \quad)$

$= \quad + \quad + \quad + \quad$

$= \quad$

3.

$23 \times 16 = (\quad + \quad) \times (\quad + \quad)$

$= \quad + \quad + \quad + \quad$

$= \quad$

Draw a line to split the rectangle into two easier parts. Write the equation.

4.



$7 \times 16 = 7 \times (\quad + \quad)$

$= \quad + \quad = \quad$

5.



$6 \times 23 = 6 \times (\quad + \quad)$

$= \quad + \quad = \quad$

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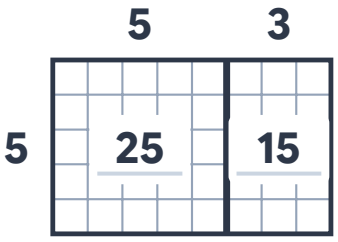
ANSWER KEY

The Distributive Property

A line splits each rectangle into two parts. Add their areas.

Write the area inside each part. Then fill in the equation.

1. Example

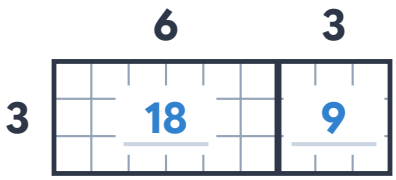


$5 \times 8 = 5 \times (\ 5\ +\ 3\ )$

$= 5 \times\ 5\ + 5 \times\ 3$

$=\ 25\ +\ 15\ =\ 40$

2.

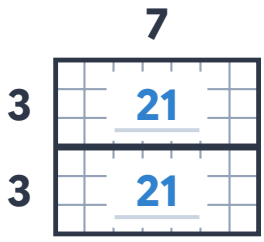


$3 \times 9 = 3 \times (\ 6\ +\ 3\ )$

$= 3 \times\ 6\ + 3 \times\ 3$

$=\ 18\ +\ 9\ =\ 27$

3.

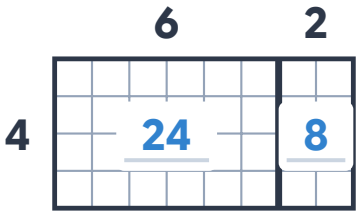


$6 \times 7 = (\ 3\ +\ 3\ ) \times 7$

$=\ 3\ \times 7 +\ 3\ \times 7$

$=\ 21\ +\ 21\ =\ 42$

4.

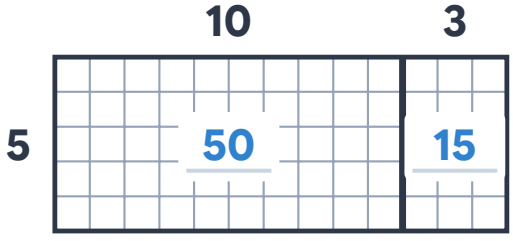


$4 \times 8 = 4 \times (\ 6\ +\ 2\ )$

$= 4 \times\ 6\ + 4 \times\ 2$

$=\ 24\ +\ 8\ =\ 32$

5.



$5 \times 13 = 5 \times (\ 10\ +\ 3\ )$

$= 5 \times\ 10\ + 5 \times\ 3$

$=\ 50\ +\ 15\ =\ 65$

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The Distributive Property

Split a number by place value. Find each part, then add.

Split the number into tens and ones. Write the area of each part.

1. Example

	10	3
4	40	12

$4 \times 13 = 4 \times (\ 10\ +\ 3\ )$

$= 40 + 12 = 52$

2.

	10	4
6	60	24

$6 \times 14 = 6 \times (\ 10\ +\ 4\ )$

$= 60 + 24 = 84$

3.

	20	7
3	60	21

$3 \times 27 = 3 \times (\ 20\ +\ 7\ )$

$= 60 + 21 = 81$

4.

	10	9
5	50	45

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

$= 50 + 45 = 95$

Split the number into hundreds, tens and ones.

5.

	100	40	6
2	200	80	12

$2 \times 146 = 2 \times (\ 100\ +\ 40\ +\ 6\ )$

$= 200 + 80 + 12$

$= 292$

6.

	200	10	5
3	600	30	15

$3 \times 215 = 3 \times (\ 200\ +\ 10\ +\ 5\ )$

$= 600 + 30 + 15$

$= 645$

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The Distributive Property

Find the missing numbers in each area model.

Write the missing side lengths and areas. Then finish the equation.

1. Example

	10	3
6	60	18

$6 \times (10 + 3) = 60 + 18$

$= 78$

2.

	10	7
4	40	28

$4 \times (10 + 7) = 40 + 28$

$= 68$

3.

	10	4
8	80	32

$8 \times (10 + 4) = 80 + 32$

$= 112$

4.

	10	6
5	50	30

16

$5 \times (10 + 6) = 50 + 30$

$= 80$

5.

	30	8
3	90	24

$3 \times (30 + 8) = 90 + 24$

$= 114$

6.

	10	3
7	70	21

$7 \times (10 + 3) = 70 + 21$

$= 91$

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The Distributive Property

Use the distributive property to find each missing number.

Write the missing number.

Example

	10	4
5	50	20

$5 \times (10 + 4) = 50 + \underline{20}$

1. $3 \times (10 + 8) = 30 + \underline{24}$
2. $7 \times (8 + 3) = 7 \times 8 + 7 \times \underline{3}$
3. $\underline{3} \times (10 + 6) = 30 + 18$
4. $9 \times 12 = 9 \times (10 + \underline{2})$
5. $(10 + 2) \times 7 = \underline{70} + 14$
6. $6 \times 15 = 6 \times 10 + 6 \times \underline{5}$
7. $8 \times (10 + \underline{7}) = 80 + 56$
8. $4 \times (20 + 3) = \underline{80} + 12$
9. $\underline{5} \times (30 + 2) = 150 + 10$
10. $5 \times 6 + 5 \times 3 = 5 \times \underline{9}$

Circle the equation that the rectangle shows.

11.

	10	8
4		

$4 \times 10 + 8$

(4 × (10 + 8))

$(4 + 10) \times 8$

12.

	20	5
6		

$6 \times 20 + 5$

$6 + 20 \times 5$

(6 × 20 + 6 × 5)

13.

	3
10	
2	

((10 + 2) × 3)

$10 \times 3 + 2$

$10 \times 2 + 3$

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The Distributive Property

Split both numbers into tens and ones. Then make your own split.

Split both numbers. Write the area of each part, then add.

1.

	10	4
10	100	40
2	20	8

$12 \times 14 = (10 + 2) \times (10 + 4)$
$= 100 + 40 + 20 + 8$
$= 168$

Example

2.

	10	5
10	100	50
3	30	15

$13 \times 15 = (10 + 3) \times (10 + 5)$
$= 100 + 50 + 30 + 15$
$= 195$

3.

	10	6
20	200	120
3	30	18

$23 \times 16 = (20 + 3) \times (10 + 6)$
$= 200 + 120 + 30 + 18$
$= 368$

Draw a line to split the rectangle into two easier parts. Write the equation.

4. One way

	10	6
7	70	42

16

$7 \times 16 = 7 \times (10 + 6)$
$= 70 + 42 = 112$

5. One way

	20	3
6	120	18

23

$6 \times 23 = 6 \times (20 + 3)$
$= 120 + 18 = 138$

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