



Properties of Addition & Multiplication

Math
F

Name _____ Class _____ Date _____

1 The **Commutative Property of Addition** states "changing the order of the addends does not change the sum."

Underline the example of the Commutative Property of Addition.

$14 + 10 = 10 + 14$ $41 + 10 = 14 + 10$
 $13 + 10 = 20 + 3$ $10 + 20 = 15 + 15$

6 The **Commutative Property of Multiplication** allows for changing the order of the factors without changing the product. Underline the example of the Commutative Property of Multiplication.

$3 \times 12 = 6 \times 6$ $19 + 20 = 20 + 19$
 $19 \times 20 = 20 \times 19$ $20 \times 19 = 10 \times 29$

2 According to the **Commutative Property of Addition**,

$40 + 35$

3 According to the **Commutative Property of Addition**, which equation is equivalent to this equation?

$4 \times 5 =$

$14 + 10$

$4 + 20 =$

7 Circle the example of the **Commutative Property of Multiplication**.

$50 = 60 \times 45$

$0 = 45 \times 60$

property of the equation.



PREVIEW

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4 Maria sold **15 flowers** Saturday morning, **60 flowers** that afternoon, and **8 flowers** just before dark. On **Sunday** morning, Maria sold **60 flowers** in the morning, **8 flowers** that afternoon and **15 flowers** just before dinner. Did she sell the same number of flowers each day? How many did she sell in a day?



Cross out the example of the **Associative Property of Multiplication**.

$10 \times (13 \times 2) = 10 \times 26$

$10 \times (13 \times 2) = (10 \times 13) \times 2$

$130 \times 2 = 260$

5 Finish the equation using the **Commutative Property**.

$17 + 25 = 25 +$ _____

10 Mr. Brown put **5 candy bars** in each box, then put **10 boxes** in each bag, and sent **8 bags** to Mrs. Casey. She needed **375 candy bars**. Complete the equation to show that Mr. Brown sent her enough candy bars.

$(5 \times 10) \times$ _____ $= 400$



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3 x 12 = 6 x 6

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19 x 20 = 20 x 19

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2 According to the **Commutative Property of Addition**,

40 + 35

3 According to the **Commutative Property of Multiplication**, which equation is an example of this property?

4 x 5 =

14 + 10

4 + 20 =

7 Circle the example of the **Commutative Property of Multiplication**.

60 = 60 x 45

40 = 45 x 60

Which equation is an example of the **Commutative Property of Addition**?

5

Which equation is an example of the **Associative Property of Multiplication**?



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yes $15 + 60 + 8 = 60 + 8 + 15 = 83$

5 Finish the equation using the **Commutative Property**.

$17 + 25 = 25 + \underline{17}$

Cross out the example of the **Associative Property of Multiplication**.

$10 \times (13 \times 2) = 10 \times 26$

~~$10 \times (13 \times 2) = (10 \times 13) \times 2$~~

$130 \times 2 = 260$

10 Mr. Brown put 5 candy bars in each box, then put 10 boxes in each bag, and sent 8 bags to Mrs. Casey. She needed 375 candy bars. Complete the equation to show that Mr. Brown sent her enough candy bars.

$(5 \times 10) \times \underline{8} = 400$