



# Commutative/Associative Properties

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 An example of the **Commutative Property of Multiplication** is \_\_\_\_\_.

- A  $45 \times 60 = 2,700$
- B  $45 \times 60 = 60 \times 54$
- C  $2,700 = 45 \times 60$
- D  $45 \times 60 = 60 \times 45$

Multiplication is fun!

2 Josie has a collection of **24 buttons**. Is it possible for her to have **either 6 sets of 4 buttons or 4 sets of 6 buttons**?

- A yes
- B no



3 A man bought **15 rulers** for **25 cents** a piece. A woman bought **25 erasers** for **15 cents** a piece. **Did they spend the same amount of money?**

- A yes
- B no



4 A bus driver stopped **18 times** and picked up **13 people** at each stop. On the return trip, he stopped **31 times** and picked up **18 people** each time. **Did he pick up the same number of people going into the city and coming back out?**



## PREVIEW

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- B  $(3 + 4) + 12 = 7 + 12$
- C  $3 + 4 + 12 = 19$
- D  $3 + 4 + 12 = 12 + 4 + 3$



- A 10
- B 48
- C 2
- D 68



9 Carlos drove **26 miles** to work, **16 miles** to visit his mother, and **10 miles** to meet his son for dinner. **How might the total miles be calculated?**

- A  $26 + 16$
- B  $26 + 10$
- C  $26 + (16 \times 10)$
- D  $26 + (16 + 10)$



10 Three members of a scout troop collected money for their camping trip. One boy collected **\$58**, another had **\$40**, and the third had **\$20**. Another group of boys collected **\$98**. **Did the two groups collect the same amount of money?**

- A yes
- B no





## ANSWER KEY

An example of the **Commutative Property of Multiplication** is \_\_\_\_\_.

- A  $45 \times 60 = 2,700$
- B  $45 \times 60 = 60 \times 54$
- C  $2,700 = 45 \times 60$
- D  $45 \times 60 = 60 \times 45$

Multiplication is fun!

(d)

Josie has a collection of **24 buttons**. Is it possible for her to have **either 6 sets of 4 buttons or 4 sets of 6 buttons**?

- A yes
- B no



(a)

A man bought **15 rulers** for **25 cents** a piece. A woman bought **25 erasers** for **15 cents** a piece. **Did they spend the same amount of money?**

- A yes
- B no



(a)

A bus driver stopped **18 times** and picked up **13 people** at each stop. On the return trip, he stopped **31 times** and picked up **18 people** each time. **Did he pick up the same number of people going into the city and coming back out?**

- A yes



(b)



## PREVIEW

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- C  $3 + 4 + 12 = 19$
- D  $3 + 4 + 12 = 12 + 4 + 3$

- C 2
- D 68



Carlos drove **26 miles** to work, **16 miles** to visit his mother, and **10 miles** to meet his son for dinner. **How might the total miles be calculated?**

- A  $26 + 16$
- B  $26 + 10$
- C  $26 + (16 \times 10)$
- D  $26 + (16 + 10)$



(d)

Three members of a scout troop collected money for their camping trip. One boy collected **\$58**, another had **\$40**, and the third had **\$20**. Another group of boys collected **\$98**. **Did the two groups collect the same amount of money?**

- A yes
- B no



(b)