

Name: Class:

Properties of addition

a. Which expression shows the identity property of addition?

- $5+2 = 2+5$ $(5+2)+3 = (3+5)+2$ $5+0 = 5$ $5 \times (2+7) = (5 \times 2) + (3 \times 5)$

b. Which expression shows the associative property of addition?

- $5+2 = 2+5$ $(5+2)+3 = (3+5)+2$ $5+0 = 5$ $5 \times (2+7) = (5 \times 2) + (3 \times 5)$

c. Which expression shows the commutative property of addition?

- $5+2 = 2+5$ $(5+2)+3 = (3+5)+2$ $5+0 = 5$ $5 \times (2+7) = (5 \times 2) + (3 \times 5)$

d. Which expression shows the distributive property of addition?

- $5+2 = 2+5$ $(5+2)+3 = (3+5)+2$ $5+0 = 5$ $5 \times (2+7) = (5 \times 2) + (3 \times 5)$

e. Identify the addition property used in each question below.

$10 + 20 = 20 + 10$ ➤ The property is _____

$7 + 0 = 7$ ➤ The property is _____

$9 + (13 + 2) = (9+13) + 2$ ➤ The property is _____

$2 + 15 + 7 = 7 + 2 + 15$ ➤ The property is _____

$12 = 12 + 0$ ➤ The property is _____

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e. Identify the addition property used in each question below.

$10 + 20 = 20 + 10$ ➤ The property is commutative.

$7 + 0 = 7$ ➤ The property is identity.

$9 + (13 + 2) = (9+13) + 2$ ➤ The property is associative.

$2 + 15 + 7 = 7 + 2 + 15$ ➤ The property is commutative.

$12 = 12 + 0$ ➤ The property is identity.