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Distributive Property

1   **Use the Distributive Property to solve the expression:** $3 \times (4 + 5)$

2   Describe what the Distributive Property means for Bella and Anton.

3   Explain how to use the Distributive Property for scenarios with more than 3 scoops of ice cream.

4   Describe how the Distributive Property changes when a third kid buys ice cream.

5   Use the Distributive Property to demonstrate what happens when Mrs. Harper bakes fewer pancakes.

6   Simplify the expression $(27 + 12 - 21) \div 3$ using the Distributive Property.

+   with lots of tips, answer keys, and detailed answer explanations for all of the problems.
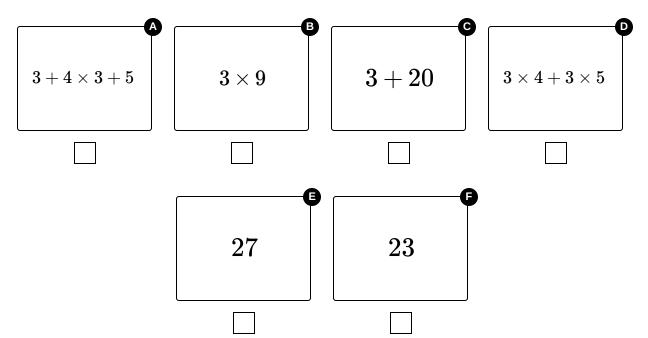
⚠ The complete package, **including all problems, hints, answers, and detailed answer explanations** is available for all sofatutor.com subscribers.

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Use the Distributive Property to solve the expression: $3 \times (4 + 5).$

Choose the terms that are equal to the given expression.

A

$3 + 4 \times 3 + 5$

☐

B

3×9

☐

C

$3 + 20$

☐

D

$3 \times 4 + 3 \times 5$

☐

E

27

☐

F

23

☐

Hints for solving these problems

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of 6

Use the Distributive Property to solve the expression: $3 \times (4 + 5).$

Hint #1

The Distributive Property says that distributing a multiplier over a sum of numbers will result in the same answer as multiplying each addend separately and then summing.

Hint #2

As a formula, this idea is expressed as follows: $c \times (a + b) = c \times a + c \times b$.

Answers and detailed answer explanations for these problems

Use the Distributive Property to solve the expression: $3 \times (4 + 5).$

Answer key: B, D, E

There are infinite examples where you can use the Distributive Property. Let's take a look at one of them. The general formula is: $c \times (a + b) = c \times a + c \times b$. So we can replace the c with 3, a with 4 and b with 5. What we're left with is $3 \times (4 + 5)$.

We always have two different possibilities when solving these types of problems:

- We could calculate the sum of $4 + 5$ first. We get 9, which has to be multiplied by 3. This leaves us with 27.

- The second way is to multiply each addend separately and then sum the resulting numbers, giving us $3 \times 4 + 3 \times 5$. As we can see, the result is the same: $12 + 15 = 27$.