

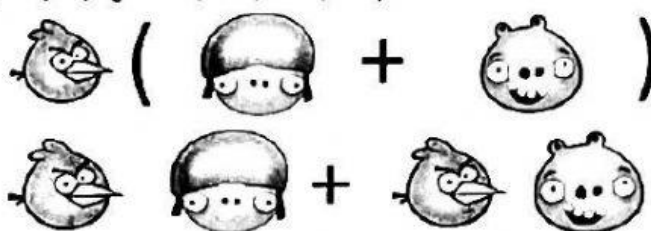
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Distributive property

- * _____ means hand out, deliver, share, give out,...
- * When an angry bird **DISTRIBUTE** (or hand out) shots, it makes sure every pig gets one.

THE DISTRIBUTIVE PROPERTY



- * In MATH, **number** (angry birds) _____ the parentheses is _____ to **every number** (pig) _____ the parentheses by _____.

Example:

USING THE DISTRIBUTIVE PROPERTY...

$$5 \times (m + 12)$$

$$= 5 \times (m) + 5 \times (12) \quad \text{Distribute } \underline{\hspace{2cm}}$$

$$= 5m + 60 \quad \text{Simplify.}$$

Solution:

Example:

$$-3(x - 7)$$

$$= (-3) \times (\quad) - (-3) \times (\quad) \quad \text{Distribute } \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}} - \underline{\hspace{2cm}} \quad \text{Simplify.}$$

Solution:

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DO NOW!

Simply algebraic expressions by using the distributive property.

(1) $2(4 + 9w)$

Solution:

(3) $(-5f + 8)4$

Solution:

(5) $-6(8p + 3)$

Solution:

(7) $(3b - 2)(-3)$

Solution:

(9) $-(7x - 8)$

Solution:

(11) $6 + 7(2x - 1)$

Solution:

(13) $6 + 10(-6 - 4v) - 9v$

Solution:

(2) $2(3v - 8)$

Solution:

(4) $4(-6z + 4)$

Solution:

(6) $-9(n - 4)$

Solution:

(8) $2(-5 - 7j)$

Solution:

(10) $-2(-5 - 3v)$

Solution:

(12) $-2(4 - 3x) - 8x + 10$

Solution: