

Name: _____ Date: _____

Teacher: _____ Section: _____

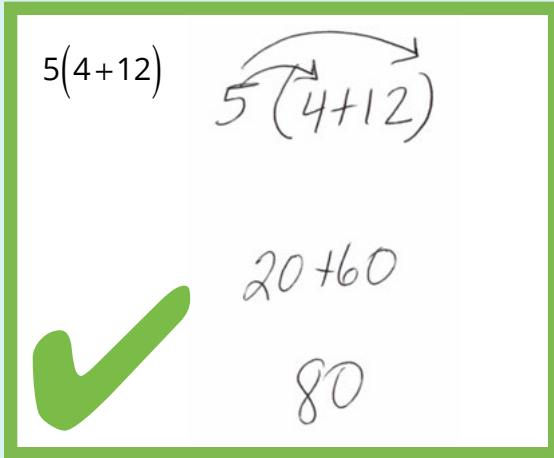
For each set, first examine the problem on the left and answer the question(s) about it. Then complete the similar problem on the right.

distributive property

SET 1: Using the distributive property, rewrite the expression in **simplest form**. SHOW ALL OF YOUR WORK.

Makala rewrote this expression **correctly**.

Here is what she wrote:



$5(4+12)$

$5(4+12)$

$20+60$

80

- Why was it important for Makala to multiply the 5 by both the 4 and the 12?

- Is $5(4) + 12$ the same expression as $5(4 + 12)$? Explain.



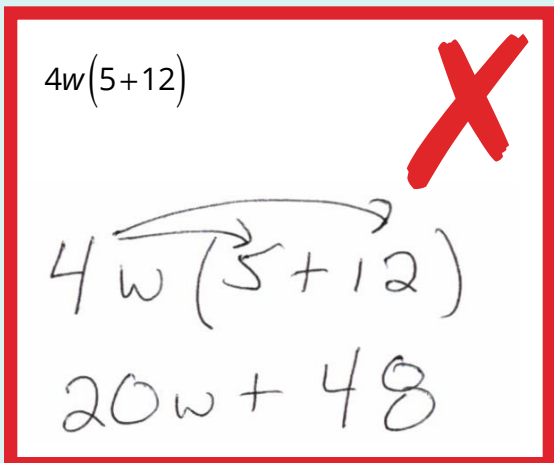
Your Turn:

$4(12-5)$

SET 2: Using the distributive property, rewrite the expression in **simplest form**. SHOW ALL OF YOUR WORK.

Pablo **didn't** rewrite this expression correctly.

Here is what he wrote:



$4w(5+12)$

$4w(5+12)$

$20w + 48$

- What did Pablo forget when distributing the $4w$?
- What should Pablo's final expression be?



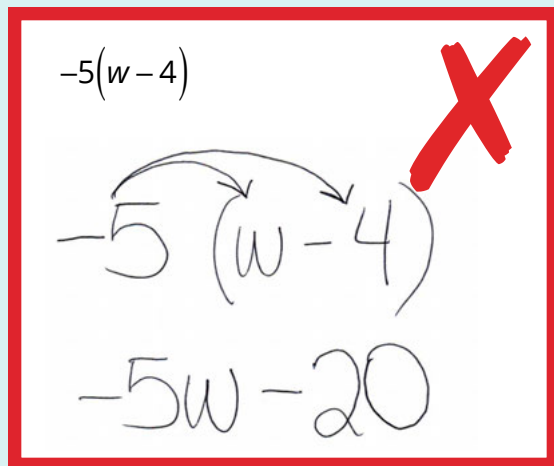
Your Turn:

$-4w(5+12)$

distributive property

SET 3: Using the distributive property, rewrite the expression in **simplest form**. SHOW ALL OF YOUR WORK.

Destiny **didn't** rewrite this expression correctly.
Here is what she wrote:



$$-5(w-4)$$

$$-5(w-4)$$

$$-5w-20$$

- What did Destiny do wrong when applying the distributive property?

- You can change just one small part in Destiny's answer and make it correct. Explain what you can change.

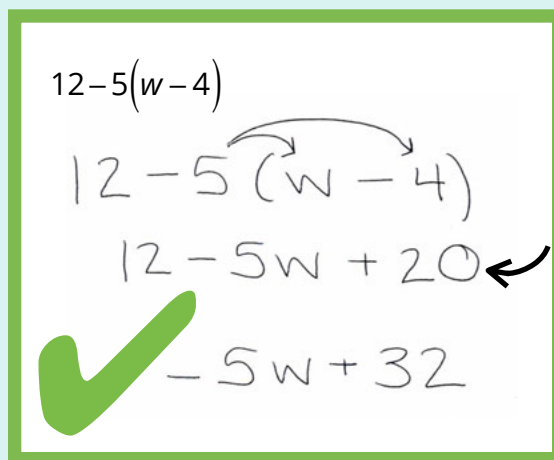


Your Turn:

$$-5(w+4)$$

SET 4: Using the distributive property, rewrite the expression in **simplest form**. SHOW ALL OF YOUR WORK.

Paul rewrote this expression **correctly**.
Here is what he wrote:



$$12-5(w-4)$$

$$12-5(w-4)$$

$$12-5w+20$$

$$-5w+32$$

- Where did the +20 come from in the step marked with an arrow?
- Would he have gotten the same answer if he first subtracted 5 from 12? Explain.



Your Turn:

$$12+5(w-4)$$