



Math Virtual Learning

HS/Essential Math II

May 20, 2020



High School/Essential Math 2
Lesson: May 19, 2020
(U4L8)

Objective/Learning Target

Multiply variables and combine like terms to consolidate their understanding of the structure of multiplication & sort out several common errors

BELLWORK

TOUGH STUFF

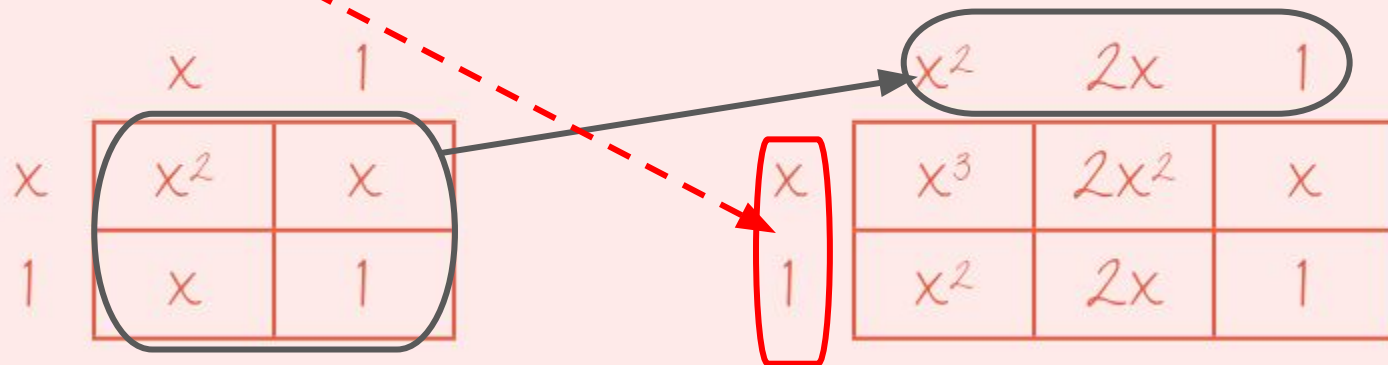
②④ Use two steps to multiply.

$$(x + 1)(x + 1)(x + 1) = \underline{\hspace{15em}}$$

ANSWERS BELL WORK

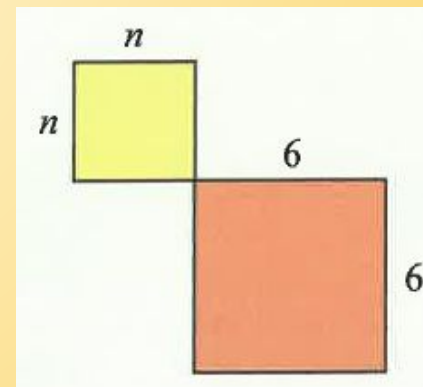
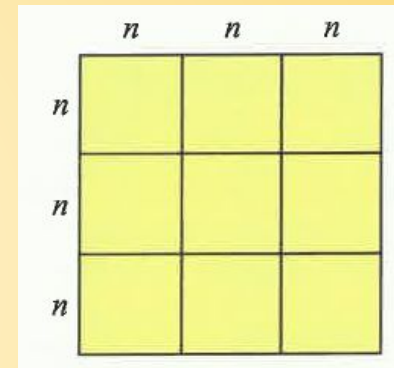
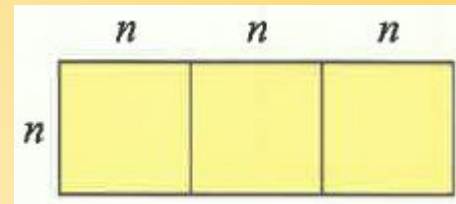
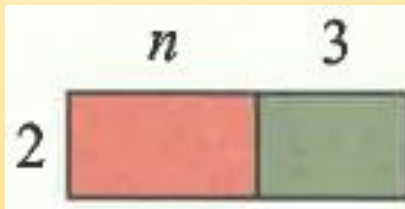
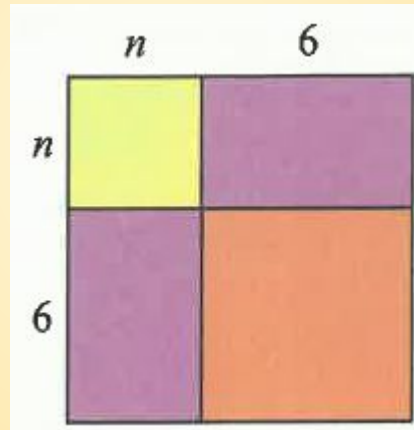
24 Use two steps to multiply.

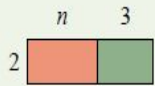
$$(x + 1)(x + 1)(x + 1) = \underline{x^3 + 3x^2 + 3x + 1}$$



Lesson - Some shapes have multiple expressions

<p>(A) $9n^2$</p>	<p>(B) $3n^2$</p>
<p>(C) $2n + 12$</p>	<p>(D) $2n + 6$</p>
<p>(E) $2(n + 3)$</p>	<p>(F) $2(n + 6)$</p>
<p>(G) $(3n)^2$</p>	<p>(H) $(n + 6)^2$</p>
<p>(I) $n^2 + 12n + 36$</p>	<p>(J) $n^2 + 6^2$</p>

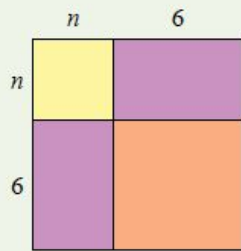




(D) $2n + 6$

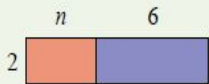
(E) $2(n + 3)$

Attach the matching expressions and descriptions here



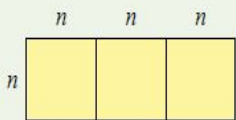
(H) $(n + 6)^2$

(I) $n^2 + 12n + 36$



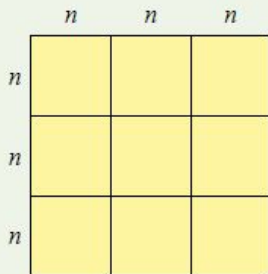
(C) $2n + 12$

(F) $2(n + 6)$



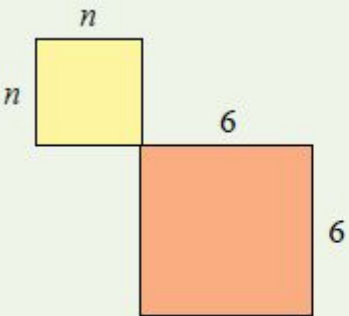
(B) $3n^2$

Attach the matching



(A) $9n^2$

(G) $(3n)^2$



Attach the matching e

(J) $n^2 + 6^2$

Lesson - Answer Key

Stuff to Make You Think

$$\textcircled{8} \quad (c - 1)(c + 1) = \underline{\hspace{4cm}}$$

$$\textcircled{9} \quad (c - 2)(c + 2) = \underline{\hspace{4cm}}$$

ANSWERS Stuff to Make You Think

$$\textcircled{8} \quad (c-1)(c+1) = \underline{c^2 - 1}$$

	c	1
c	c^2	c
-1	$-c$	-1

$$\textcircled{9} \quad (c-2)(c+2) = \underline{c^2 - 4}$$

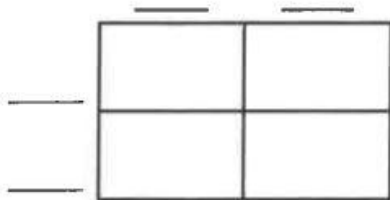
	c	2
c	c^2	$2c$
-2	$-2c$	-4

Additional Practice

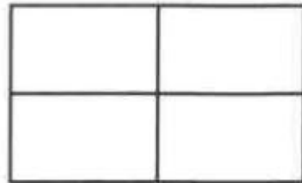
Additional Practice

Use an area model to multiply these expressions.

Ⓐ $(n + 3)(n + 4) =$ _____



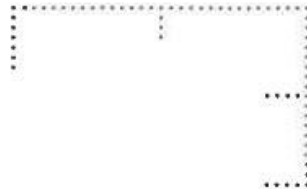
Ⓑ $(n + 4)^2 =$ _____



Ⓒ $(n - 4)^2 =$ _____



Ⓓ $(n + 4)(n - 4) =$ _____



Additional Practice Key

Additional Practice

Use an area model to multiply these expressions.

Ⓐ $(n + 3)(n + 4) = \underline{n^2 + 7n + 12}$

	<u>n</u>	<u>3</u>
<u>n</u>	n^2	$3n$
<u>4</u>	$4n$	12

Ⓑ $(n + 4)^2 = \underline{n^2 + 8n + 16}$

	<u>n</u>	<u>4</u>
<u>n</u>	n^2	$4n$
<u>4</u>	$4n$	16

Ⓒ $(n - 4)^2 = \underline{n^2 - 8n + 16}$

	<u>n</u>	<u>-4</u>
<u>n</u>	n^2	$-4n$
<u>-4</u>	$-4n$	16

Ⓓ $(n + 4)(n - 4) = \underline{n^2 - 16}$

	<u>n</u>	<u>4</u>
<u>n</u>	n^2	$4n$
<u>-4</u>	$-4n$	-16

Today you learned to multiply variables and combine like terms to consolidate their understanding of the structure of multiplication & sort out several common errors

For additional practice, click the link: [Solve Me Mystery Grids](#)