

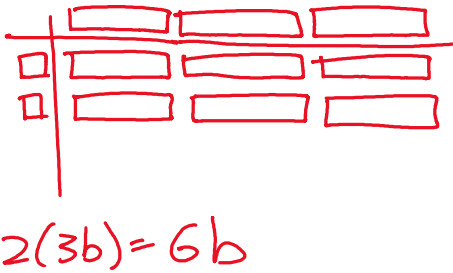
Learning Outcomes Covered:

5G: I can multiply a polynomial by a monomial.

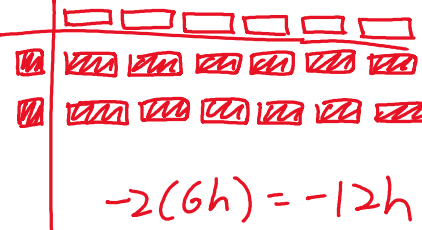
CONTENT Assessment Questions:

1. Multiply. Sketch the algebra tiles too.

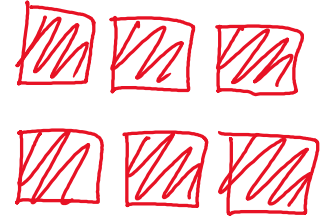
a) $2(3b)$



b) $-2(6h)$



c) $-3(2x^2) = -6x^2$

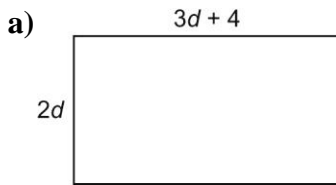


2. Write the multiplication sentence modelled by the set of algebra tiles.

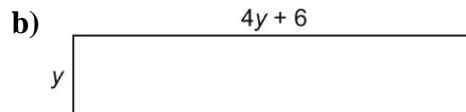


$(x)(2x+3) = 2x^2 + 3x$

3. Write the multiplication sentence modelled by each rectangle.



$2d(3d+4)$



$y(4y+6)$

4. Determine each product.

a) $4(3a+2)$

$= 12a + 8$

b) $-3(-5m^2 + 6m + 7)$

$= 15m^2 - 18m - 21$

c) $2(4c^2 - 2c + 3)$

$= 8c^2 - 4c + 6$

d) $(-2n^2 + n - 1)(6)$

$= -12n^2 + 6n - 6$

5. Determine each product.

a) $3c(5c + 2)$

$$= 15c^2 + 6c$$

b) $(8 + 4y)(6y)$

$$= 48y + 24y^2$$

c) $5p(-5 - 2p)$

$$= -25p - 10p^2$$

d) $(-1 - 10r)(-r)$

$$= 1r + 10r^2$$

CURRICULAR COMPETENCIES Questions:

1. Here is a student's solution for a multiplication question.

(CmRp)

$$\begin{aligned} &(-5k^2 - k - 3)(-2) \\ &= -2(5k^2) - 2(k) - 2(3) \\ &= -10k^2 - 2k - 6 \end{aligned}$$

a) Explain why the student's solution is incorrect.

Negative signs were not included
for k^2 , k & 3

b) What is the correct answer? Show your work.

$$(-5k^2 - k - 3)(-2)$$

$$= 10k^2 + 2k + 6$$

ONGOING LEARNING ACTIVITIES:

CORE: Curricular Competencies: Page 246: 12; Page 255: 13, 14

Content: Page 246: 5, 9, 11bcf, 15acf, 22abd;

Page 255: 4, 6, 11ac, 12bdh, 20abf

ADVANCED: Page 248: 24; Page 257: 19, 22