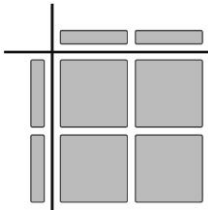


Learning Outcomes Covered:**5I:** I can divide a polynomial by a monomial.**CONTENT Assessment Questions:**

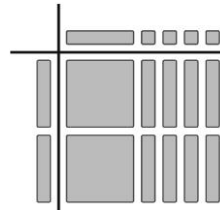
1. Write a division sentence modelled by each set of algebra tiles.

a)



$$4x^2 \div 2x = 2x$$

b)



$$\frac{2x^2 + 8x}{2x} = x + 4$$

2. Divide.

a) $(6x + 3) \div 3$

$$= \frac{6x}{3} + \frac{3}{3}$$

$$= 2x + 1$$

b) $(14w - 7) \div -7$

$$= \frac{14w}{-7} + \frac{-7}{-7}$$

$$= -2w + 1$$

c) $(-15 - 10q) \div 5$

$$= \frac{-15}{5} + \frac{-10q}{5}$$

$$= -3 - 2q$$

d) $(8z^2 + 4z) \div 2z$

$$= 4z + 2$$

e) $(12c^2 - 6c) \div 3c$

$$= 4c - 2$$

f) $(9xy - 6x) \div -3x$

$$= -3y + 2$$

CURRICULAR COMPETENCIES Questions:

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

(CmRp)

$$\begin{aligned} & (-12x^2 - 9x - 12xy) \div (-3x) \\ &= \frac{-12x^2}{-3x} + \frac{9x}{-3x} + \frac{-12xy}{-3x} \\ &= 4x^2 - 3 + 4xy \end{aligned}$$

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

This student forgot to divide x for first term.
The sign for second term is also wrong.

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

$$\begin{aligned} & \frac{-12x^2}{-3x} + \frac{-9x}{-3x} + \frac{-12xy}{-3x} \\ &= 4x + 3 + 4y \end{aligned}$$

ONGOING LEARNING ACTIVITIES:

CORE: Page 255: Curricular Competencies: 18a

Content: 5, 10, 11bfh, 16, 21

ADVANCED: Page 257: 23, 25