Learning Outcomes Covered:

5D: I can simplify polynomials by combining like terms.

CONTENT Assessment Questions:

- **1.** Use algebra tiles to model each polynomial, then combine like terms. Sketch the tiles for the simplified polynomial.
 - a) 4+x+1+5x+1 = 6x+6
- **b**) $-3y^2 + 3y 2 = -3 \cancel{1} + 3 \cancel{2} 2$
- c) $2x^2 + 8 11 4x^2 + 5x^2$
- **d)** $3y + 7y^2 + 1 y 2y 3y^2$
- **2.** Simplify each polynomial.
 - a) 7d 2d + 1 6

b) -5 - 3 - k - 5k= -6 | (-8)

c) -4 + 2a + 7 - 4a= -2a + 3

- d) $3a^2 2a(-4) \cdot 2a 3a^2 + 5$
- e) $d^2 + 3d + 1 + 4d^2 + 2$ = $5d^2 + 3d + 3$
- f) $-6x^2 + 10x + 4 + 4 12x 7x^2$ = $-13x^2 - 2x$

CURRICULAR COMPETENCIES Questions:

1. From the list, identify terms that are like $2w^2$. Explain how you know using words or pictures. (CmRp)

They all have the same variable & exponent

From the six expressions below, identify the equivalent polynomials. Justify your responses.

(CmRp)

a)
$$-5y^2 - 3y - 4$$

c) $1 + x - x^2$

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e)
$$-7 + 5x - 7x - 8 + 14 + 12x$$

b)
$$10x - 1$$

d)
$$2y^2 - 4 - 16 - 7y^2 - 3y + 16$$

f) $5x^2 + 7 + 4x - 6x^2 - 6 - x - 2x$

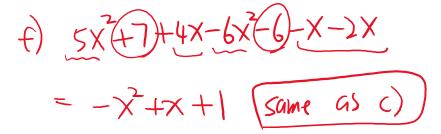
f)
$$5x^2 + 7 + 4x - 6x^2 - 6 - x - 2x$$

d)
$$2y^2-4-16-7y^2-3y+16$$

= $-5y^2-3y-4$ (Same as a)

e)
$$-7 + 5x - 7x - 8 + 14 + 12x$$

= $10x - 1$ [Same as b)



ONGOING LEARNING ACTIVITIES:

CORE: Page 222: Curricular Competencies: 6, 9, 10, 18

Content: 8, (11, 12, 13, 14, 15) do at least 3 from each, 19

ADVANCED: Page 224: 20adf, 21, 22