

Notes 3-2

Int 1

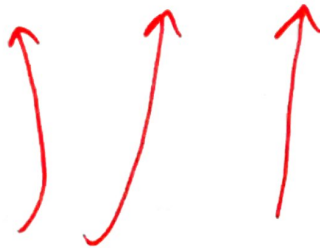
Simplify Algebraic Expressions

Unit 3

Definitions**Expression**

$$\underline{45a} - \underline{7b} + \underline{c}$$

Term:



Like Term:

$$\textcircled{4x} + 2y + \textcircled{6x} = 10x + 2y$$

terms that have the same variable.

Coefficient:

$$\textcircled{45}a - \textcircled{7}b + \textcircled{1}c$$

a # attached to the front
of a variables

Constant:

stays the same

↳ Have NO variables.

$$4x + 2y + \textcircled{5} \text{ constant}$$

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Unit 3

Simplify the following algebraic expressions:

$$1. \quad 4y + 1y = 5y$$

$$2. \quad 4z + 4 = 4z + 4$$

$$3. \quad 4x + 3 + 7x + 7 = 11x + 10$$

$$4. \quad 21b - 3c + 4a - 3b + 2$$

$$4a + 18b - 3c + 2$$

$$5. \quad 1xy + 3z + 4xy = 5xy + 3z$$

$$6. \quad -3r + 7 + 3r - 12 = -5$$

$$7. \quad 1a^2 + 1t^2 - 3a^2 + 2t^2 = -2a^2 + 3t^2$$

$$8. \quad 22y^2 - 23y^2 + 4y - 1y^2 = -y^2 + 4y$$

$$9. \quad 12mn + 3m + 2n + 4m = 12mn + 7m + 2n$$

$$10. \quad 12xy + 12wx + 2xy = 14xy + 12wx$$

$$11. \quad 20a + 4ab - 3a^2 + 6ab = 10ab - 3a^2 + 20a$$

Name:

Period:

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12. How would we simplify the expression $|x + |x + |x$?

$3x$

13. Simplify the perimeter of the following shape.

