

Unit 4: Variable Expressions

Name: \_\_\_\_\_

Lesson 5: Simplifying Variable Expressions

Hour: \_\_\_\_\_

Simplifying Variable Expressions Worksheet

$$1) 5x + 7(2x + 1) + 11$$

$$2) -15 - 7x + 4(-3x - 8)$$

$$3) -(x + 15) - 5(x - 9)$$

$$4) -4(-2x + 7) - (6x + 10)$$

$$5) -5x^2 + x(x + 3) - (-2x - 5)$$

$$6) -3(-5x + 8y - 8) + (2x - 10y + 3)$$

$$7) 10x - 8(2x^2 - 6x + 1) + (-7x + 8)$$

$$8) -(-3x + 7) - (8x - 5)$$

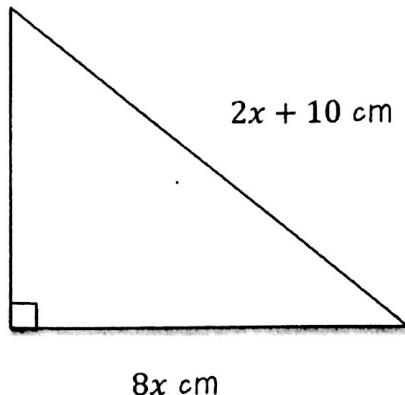
$$9) 5x + 9x - 7x + 4(2x - 12)$$

$$10) -(10x - 9) - (-2x + 10) - 7x$$

Find the perimeter and area of the following figures. Show your work. Remember to include the correct units of measure.

11)

$$4x + 20 \text{ cm}$$



12)

$$3x + 12 \text{ ft}$$

$$5 \text{ ft}$$

