Unit 1 Remediation

In Class Example	You Try
A rectangle has a length of 150 centimeters and a width of 12 meters. What is the area of the rectangle in meters?	Tara has a rectangular garden. The length is 10 meters and the width is 1.2 dm. What is the perimeter of her garden?
If a runner's speed is 20 feet per second, what is their speed in miles per hour?	A car is driving at a rate of 3 kilometers per minute. What is the car's speed in meters per hour?
If you simplified $3(6 + \sqrt{2})$, would the	If you simplified $5\sqrt{3}(7+\sqrt{3})$, would the answer be rational or irrational?
	Why?
Simplify the following expression: $\sqrt{6a^5} \cdot 5\sqrt{12b^2}$	Simplify: $\sqrt{20xy^2} \cdot \sqrt{35xy^3}$
Simplify the following expression: $9\sqrt{18} - 3\sqrt{50}$	Simplify: 3√98 – 6√18
	A rectangle has a length of 150 centimeters and a width of 12 meters. What is the area of the rectangle in meters? If a runner's speed is 20 feet per second, what is their speed in miles per hour? If you simplified $3(6 + \sqrt{2})$, would the answer be rational or irrational? Why? Simplify the following expression: $\sqrt{6a^5} \cdot 5\sqrt{12b^2}$ Simplify the following expression:

GSE Algebra I	Unit 1 - Relationships Among Quantities 1.08 - Practice	
	The expression s^2 is used to calculate the area of a square, where s is the side length of the square. If you are told the area of the square is $(3r)^2$, then how long is one side of the square?	The area of a rectangle is lw, where I is the length of the rectangle and w is the width. If you are told that the area of the rectangle is 5(x+2). What does the (x+2) represent?
3. Area and Perimeter	A model of a house is shown. What is the perimeter of the model? 5x + 7 $8x - 4$ $10x + 9$	Find the perimeter: x-2 $2x+13x-7$
	Simplify the expression (x - 4) ²	Simplify the expression $(x+9)^2$
4. Multiplication	The length of a rectangle is 6 inches. The width is 3w inches. If the coefficient of the width increases by 2, what could be an expression for the area of the rectangle?	The width of a rectangle is 8 inches. The length is 5x inches. If the coefficient of the length decreases by 3, what could be an expression for the area of the rectangle?