Name: <u>Guide</u>

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## Unit 1 Remediation

Skill Set	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?			
1. Unit Conversions	12 (1.5) = [18m²]				
<ul> <li>5280 feet = 1 mi</li> <li>1.6 km = 1 mi</li> <li>0.034 ounces = 1 mL</li> <li>1.05 qts = 1 L</li> <li>4 qts = 1 gal</li> <li>0.454 kg = 1 lb</li> </ul>	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?			
• 16 ounces = 1 lb	1 Sec S280Ft 1 Min 1 hr	2.5.2.7.2			
	72000 = 13.64 mir 5280 = 13.64 mir	4××			
	If you simplified $3(6+\sqrt{2})$ , would the	If you simplified $5\sqrt{3}(7+\sqrt{3})$ , would			
	answer be rational or irrational? Why?	the answer be rational or irrational? Why?			
	because Ja isn't a perfect Square. Rational + irrational	× ) - ×			
	Simplify the following expression:				
	$\sqrt{6a^5} \cdot 5\sqrt{12b^2}$	Simplify: $\sqrt{20xy^2} \cdot \sqrt{35xy^3}$			
2. Irrational Numbers	5 J72 a 5 b 2	Shrift Web, start Toxon carroll			
	5. J36. J2. Jay. Jai. J63	Dinkuri voc prtili Hilipou torim Sivo			
	5.6. Ja. a2. Ja.b= 30a26 Jaa	MARKET TO LIGHTONERS			
	Simplify the following expression: $9\sqrt{18} - 3\sqrt{50}$	Simplify: $3\sqrt{98} - 6\sqrt{18}$			
	9.3.52-355.55				
	2752-1555				

1.08 - Practice Unit 1 - Relationships Among Quantities GSE Algebra I The area of a rectangle is lw, where I is The expression s<sup>2</sup> is used to calculate the length of the rectangle and w is the the area of a square, where s is the width. If you are told that the area of side length of the square. If you are the rectangle is 5(x+2). What does the told the area of the square is  $(3r)^2$ , (x+2) represent? then how long is one side of the square? A model of a house is shown. What is Find the perimeter: the **perimeter** of the model? 2x+13. Area and 5x + 7Perimeter ≅ 8x - 4 10x + 95x+7+5x+7+8x-4+10x+9+8x-4 Simplify the expression  $(x+9)^2$ Simplify the expression  $(x-4)^2$ (x-4)(x-4)x2-4x-4x+16 x2-8x+16 The width of a rectangle is 8 inches. The The length of a rectangle is 6 inches. 4. Multiplication The width is 3w inches. length is 5x inches. If the coefficient of the length If the coefficient of the width increases decreases by 3, what could be an by 2, what could be an expression for

the area of the rectangle?

$$\begin{array}{c}
\boxed{3} & 6 \Rightarrow \boxed{5} & 6 \\
5 & 6 & 6
\end{array}$$

$$\begin{array}{c}
5 & 6 & 6 & 6 & 6
\end{array}$$

expression for the area of the rectangle?