


Lesson Objectives & Standards Addressed	Review or learn the rules governing order of operations								
	Rewrite algebraic expressions that include multiplication and division, or addition and subtraction, by the same number								
	Proportional Reasoning and Variation	Numbers, Number Sense and Operations							
	1. Proportions 2. Capture-Recapture 3. Proportions and Measurement Systems 4. Direct Variation 5. Inverse Variation 6. Variation with a Blobble 7. Evaluating Expressions 8. Undoing Operations	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;">E. Compare, order and determine equivalent forms of real numbers.</td> <td style="width: 50%; vertical-align: top;">2- Compare, order and determine equivalent forms for rational and irrational numbers.</td> </tr> <tr> <td style="vertical-align: top;">G. Estimate, compute and solve problems involving real numbers, including ratio, proportion and percent, and explain solutions.</td> <td style="vertical-align: top;">4- Demonstrate fluency in computations using real numbers.</td> </tr> <tr> <td colspan="2" style="text-align: center; background-color: #e0e0e0;">Measurement</td> </tr> <tr> <td style="vertical-align: top;">D. Use proportional reasoning and apply indirect measurement techniques, including right triangle trigonometry and properties of similar triangles, to solve problems involving measurements and rates.</td> <td style="vertical-align: top;"> 1- Convert rates within the same measurement system; e.g., miles per hour to feet per second; kilometer per hour to meters per second. 2- Use unit analysis to check computations involving measurement. </td> </tr> </table>	E. Compare, order and determine equivalent forms of real numbers.	2- Compare, order and determine equivalent forms for rational and irrational numbers.	G. Estimate, compute and solve problems involving real numbers, including ratio, proportion and percent, and explain solutions.	4- Demonstrate fluency in computations using real numbers.	Measurement		D. Use proportional reasoning and apply indirect measurement techniques, including right triangle trigonometry and properties of similar triangles, to solve problems involving measurements and rates.
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Daily Agenda	Tuesday
Note: We are skipping Lesson 2.6	Get out Homework p. 127 #1-6,8 Check and Correct with Red Pen Only Correct Worksheet 2.4 Any questions on Ch 1 Test? Class Begin Notes 2.7 Start Worksheet 2.5 (if time)
	Wednesday
	Pass up Worksheet 2.5 Finish Notes 2.7 as needed Begin work on p. 140 assignment Check and correct Worksheet 2.5 (if time)

Homework Assigned	Worksheet 2.5 due Wednesday p. 140 # 1-2,6-11 due Thursday (Lesson 2.7) p. 147 #1,3-6,8,10c,11 due Friday (Lesson 2.8) p. 151 #1, 3-9, 12-13 due Monday (Chapter Review) Review in Class on Monday Test will be on TUESDAY
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Lesson 2.5 • Inverse Variation

Name _____ Period _____ Date _____

- Substitute the given value into the equation $y = \frac{12}{x}$ to find the missing value.
 - Find y if $x = 3$.
 - Find y if $x = 48$.
 - Find y if $x = 1.5$.
 - Find x if $y = 2$.
 - Find x if $y = 36$.
 - Find x if $y = 600$.
- Two quantities, x and y , are inversely proportional. When $x = 8$, $y = 4$. Find the missing coordinate for each point.
 - $(16, y)$
 - $(x, 40)$
 - $(0.2, y)$
 - $(x, 12.8)$
- Find five points that satisfy the equation $y = \frac{18}{x}$. Graph these points and the equation to verify that your points are on the graph.
- The amount of time it takes to travel a given distance is inversely proportional to how fast you travel.
 - Sound travels at about 330 m/s in air. How long would it take sound to travel 80 m?
 - How long would it take sound to travel 1 mi, or 1609 m?
 - Sound travels faster through solid matter. How fast does sound travel in ice-cold water if it takes 3 s to travel 4515 m?
- The mass needed to balance a mobile varies inversely with its distance from the point of suspension. A mass of 15 g balances the mobile when it is hung 40 cm from the suspension string.
 - What mass would be needed if the distance were 30 cm?
 - At what distance could you balance a 10 g mass?

