

Alg 1 Tuesday Week 8 Warm Up

Skill 2: Proportional Reasoning

Jennie ran the first 6 miles of a marathon in 58 minutes. If she is able to maintain the same pace, how long will it take her to finish the 26.2 miles?

Skill 3: Solve and Graph Compound Inequalities on a Number Line

$$-5 < 3p + 7 \leq 22$$



Skill 4: Solve and Graph Absolute Value Inequalities and Equations

$$|3x + 6| \geq 12$$










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Week Tuesday Chp 1-3 Review Sheet #2 **HW** Name _____ per _____

<p>1. Evaluate $4(5 - 3^2) - 16 \div 4 \cdot 2$</p>	<p>2. Write the expression: a) A number w decreased by twice a number x b) The sum of seven and the quotient of y and 3 c) Nine less than the product of x and y</p>	<p>3. Evaluate if $x = -3, y = 10$ and $z = -2$</p> $\frac{5z}{y} + 3x^2$
<p>4. Solve and CHECK</p> $-8 = \frac{x}{4} - 5$ <p>CHECK:</p>	<p>5. Solve and CHECK</p> $3(w + 4) = 5w + 2(w - 4)$ <p>CHECK:</p>	<p>6. Solve.</p> $\frac{2x-8}{8} = \frac{3x+3}{12}$
<p>7. A person buys a bike for \$25 and then sells it for \$40. What is the percent increase?</p>	<p>8. 115% of 98 is what number?</p>	<p>9. 65 is what percent of 40?</p>
<p>10. 72 is 60% of what number?</p>	<p>11. How long will it take Rey to bike 56 miles at 17 mph? Round to the nearest tenth.</p>	<p>12. Is $(-3, 4)$ a solution to</p> $8x + 5y = 17$ <p>Work:</p>

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<p>13. Solve and graph the solutions.</p> $2y - 4(y + 3) < -6$ 	<p>14. Solve and graph the solutions.</p> $-11 < 2x - 3 \leq -5$ 	<p>15. Solve and graph the solutions.</p> $8 > 14 - 2c \text{ or } 5c - 1 \leq 7c + 3$  <i>Solution:</i> _____
<p>16. Solve and graph the solutions.</p> $5 - (2c + 1) \leq 4 \text{ and } 3c > -15$  <i>Solution:</i> _____	<p>17. Solve and graph the solutions.</p> $ 2x - 5 = 1$  <i>Solution:</i> _____	<p>18. Solve and graph the solutions.</p> $ x + 2 \geq 2$  <i>Solution:</i> _____
<p>19. $3x - 3 \leq 6$</p>  <i>Solution:</i> _____	<p>20. Simplify.</p> $3(4x + 5) - 2(7 - 2x)$	<p>21. Solve.</p> $2y - (6y - 8) = 4(y + 2) - 40$