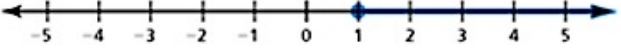


Chapter	Question	Work				
1	$ 2x + 3 - 4 = 7$					
1	<p>Which equation(s) have no solutions?</p> <table border="1" data-bbox="310 596 1422 814"> <tr> <td data-bbox="310 596 867 705">a. $x - 7(x + 2) = 6x - 2$</td> <td data-bbox="867 596 1422 705">b. $\frac{2}{3}(x - 9) = 30$</td> </tr> <tr> <td data-bbox="310 705 867 814">c. $x + 10 - x = 15$</td> <td data-bbox="867 705 1422 814">d. $2x + 5 = \frac{1}{2}(4x + 10)$</td> </tr> </table>	a. $x - 7(x + 2) = 6x - 2$	b. $\frac{2}{3}(x - 9) = 30$	c. $x + 10 - x = 15$	d. $2x + 5 = \frac{1}{2}(4x + 10)$	
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2	<p>Solve the inequality. Justify your steps.</p> <table border="1" data-bbox="310 1113 959 1507"> <tr> <td data-bbox="310 1113 604 1507"> $-\frac{3}{2}x + 8 < 2$ </td> <td data-bbox="604 1113 959 1507"></td> </tr> </table>	$-\frac{3}{2}x + 8 < 2$				
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2	<p>Translate the inequality into a verbal model.</p> <p>$2(x - 3) \geq 4x$</p> <ol style="list-style-type: none"> Two times the difference between a number and 3 is greater than or equal to the product of four and the same number. The quotient of two and the difference of a number and three is greater than or equal to four times a number. Four times a number is less than or equal to the product of 2 and the sum of a number and 3. Two times the quantity of a number less than 3 is greater than or equal to the sum of 4 and a number. 					

2	<p>Which inequality symbol $<$, $>$, \leq, or \geq is used so that the graph is a solution of the model below.</p> <p>$-x + 5 \underline{\hspace{1cm}} 4$</p>			
4	<p>For what values of a and b would an x-intercept of $(-8,0)$ and a y-intercept of $(0,10)$ represent the given model?</p> <p>$ax + by = -40$</p>			
4	<p>Write an equation in slope-intercept form that passes through the points $(5, -2)$ and $(1, 10)$.</p>			
5	<p>Sue has \$1.15 in nickels and dimes. She has a total of 16 coins. How many nickels and how many dimes does she have?</p>			
5	<p>Solve the system of linear equations using substitution or elimination.</p> <p>$y = x - 4$ $-2x + y = 18$</p>			
5	<p>Do system 1 and system 2 have the same solution? Explain your results.</p>	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center; vertical-align: top;"> <p>System 1</p> <p>$3x - 2y = 8$</p> <p>$x + y = 6$</p> </td> <td style="text-align: center; vertical-align: top;"> <p>System 2</p> <p>$5x = 20$</p> <p>$x + y = 6$</p> </td> </tr> </table>	<p>System 1</p> <p>$3x - 2y = 8$</p> <p>$x + y = 6$</p>	<p>System 2</p> <p>$5x = 20$</p> <p>$x + y = 6$</p>
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