

Math 6 - Unit 4: Equations and Inequalities
 Study Guide

Name: _____

Class Period: 1 2 3 4 Date: _____

Solve the following problems and record your answers on the given line. You must show all work required to get credit!

<p>1) $m + 2.75 = 6$</p> <p style="text-align: right;">ANSWER: _____</p>	<p>2) $5z = 450$</p> <p style="text-align: right;">ANSWER: _____</p>																																																
<p>3) $\frac{w}{8} = 6$</p> <p style="text-align: right;">ANSWER: _____</p>	<p>4) $85 = x - 19$</p> <p style="text-align: right;">ANSWER: _____</p>																																																
<p>5) Is $x = 20$ a solution to the equation, $5x = 100$?</p> <p style="text-align: right;">ANSWER: _____</p>	<p>6) What inequality is graphed on the number line?</p> <div style="text-align: center;"> </div> <p style="text-align: right;">ANSWER: _____</p>																																																
<p>7) Which of the following is NOT a solution to the inequality $15 \geq x$?</p> <p>A. 16 B. 10 C. 9 D. 8</p> <p style="text-align: right;">ANSWER: _____</p>	<p>8) Together, Sammy and Stella have 14 Jolly Ranchers. Sammy has 6 Jolly Ranchers. How many Jolly Ranchers does Stella have?</p> <p>a) Write an equation to represent the situation. _____</p> <p>b) Solve for how many JR Stella has. _____</p>																																																
<p>9) Which table satisfies the equation $y = x + 7$?</p> <p>A.</p> <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr><td>x</td><td>0</td><td>7</td><td>14</td><td>35</td><td>56</td></tr> <tr><td>y</td><td>0</td><td>1</td><td>2</td><td>5</td><td>8</td></tr> </table> <p>B.</p> <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr><td>x</td><td>0</td><td>1</td><td>2</td><td>5</td><td>8</td></tr> <tr><td>y</td><td>0</td><td>7</td><td>14</td><td>35</td><td>56</td></tr> </table>	x	0	7	14	35	56	y	0	1	2	5	8	x	0	1	2	5	8	y	0	7	14	35	56	<p style="text-align: right;">ANSWER: _____</p> <p>C.</p> <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr><td>x</td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>y</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> </table> <p>D.</p> <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr><td>x</td><td>0</td><td>2</td><td>4</td><td>6</td><td>8</td></tr> <tr><td>y</td><td>7</td><td>14</td><td>28</td><td>42</td><td>56</td></tr> </table>	x	0	1	2	3	4	y	7	8	9	10	11	x	0	2	4	6	8	y	7	14	28	42	56
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<p>10) The equation $c = \\$2.32p$ represents the cost, c, of p pounds of apples. If Mrs. Katz bought 3 pounds of apples, how much did he spend?</p> <p style="text-align: right;">ANSWER: _____</p>																																																	

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ANSWER KEY

Class Period: 1 2 3 4 Date: _____

1) $m + 2.75 = 6$

ANSWER: 3.25

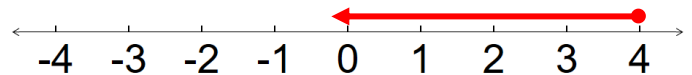
2) $5z = 450$

ANSWER: 90

3) $\frac{w}{8} = 6$

ANSWER: 48

4) $85 = x - 19$

ANSWER: 1045) Is $x = 20$ a solution to the equation,
 $5x = 100$?**ANSWER: yes**6) What inequality is graphed on the
number line?**ANSWER: $x \leq 4$** 7) Which of the following is NOT a solution to
the inequality $15 \geq x$?

- A. 16 B. 10 C. 9 D. 8

ANSWER: A8) Together, Sammy and Stella have 14 Jolly
Ranchers. Sammy has 6 Jolly Ranchers.
How many Jolly Ranchers does Stella
have?a) Write an equation to represent the
situation. **$x + 6 = 14$** b) Solve for how many JR Stella has. **8**9) Which table satisfies the equation $y = x + 7$?**ANSWER: C**

A.

x	0	7	14	35	56
y	0	1	2	5	8

C.

x	0	1	2	3	4
y	7	8	9	10	11

B.

x	0	1	2	5	8
y	0	7	14	35	56

D.

x	0	2	4	6	8
y	7	14	28	42	56

10) The equation $c = \$2.32p$ represents the cost, c , of p pounds of apples.
If Mrs. Katz bought 3 pounds of apples, how much did he spend?**ANSWER: \$6.96**