Solving Equations (Section 6.1-6.2)

Date Period\_\_\_

Solve each equation. (Show all work)

1) 
$$-4 = 2(x-6)$$

2) 
$$-54 = n + 4(n - 6)$$

3) 
$$5(1-7m)=40$$

4) 
$$-6(2+7r) = -54$$

5) 
$$-12 = -4 + 8(5x - 1)$$

6) 
$$5(n+1)=45$$

7) 
$$10b - 32 - 2b = -4(2 + b)$$

8) 
$$-2(1+4v) = -6(3+v)$$

9) 
$$-2 = \frac{-3 + x}{8}$$

10) 
$$2 = \frac{2}{3} + \frac{x}{4}$$

11) 
$$\frac{2}{5}(x-7) = \frac{1}{4}(2x-1)$$

12) 
$$-7 - 9k = 29$$

13) To and Fred each have a Tractor Trailer Cleaning Business. Ted charges \$32 per hour and a flat rate of \$44 to clean a truck. Fred on the other hand charges a flat rate of \$100 and \$24 per hour to clean a truck. Use an equation to find out when they charge the

9 U - Math 9	)
Inequalities ICA Solve and graph. (Section 6.3-6.5)	Name Date
1. −3y ≥ 24 ←	2. −2c ≤ 26 →
3. 4 − c < 16 · · · · · · · · · · · · · · · · · ·	4. 15 < −k + 8   ←
5. $3k + 8 \ge 17$	6. −9 ≤ 2a − 25  ←
7. 21 < −4 − 5a  ←	8. $-3k+14 < 2$
9. $-9x + 71 \ge 17$	10.  -25 < -4c - 13
Write a scenerio for each situation.	<b>5.</b>
Karen needs to make a mark of at least 87 on his Math exam in order to pass the course.	2) Ted has a lemonade stand and it cost him \$3.15 to buy his cups and juice. He wants to buy an action figure for \$8.25 so he decided to sell his lemonade for \$0.57 per cup. Write an inequality that represents the situation. (Solve it)

Unit 6-Equations & Inequalities Test Review (Day 2)

rt 1) Solve each of the following.

1) 
$$4(x-1) + 4x = 2(3x+1)$$

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$$4(x-1) + 4x = 2(3x+1)$$
 2)  $\frac{1}{2}(4x+2) = \frac{1}{3}(x-1)$  3)  $\frac{1x}{15} + \frac{1}{3} + \frac{2x}{5} + 4 = \frac{2}{15}$ 

$$3)\,\frac{1x}{15} + \frac{1}{3} + \frac{2x}{5} + 4 = \frac{2}{15}$$

4) 
$$3.2(x+7.2) = 1.2(4.2-x)$$
 5)  $3x-2+5x = 19$ 

5) 
$$3x - 2 + 5x = 19$$

$$6)12x + 5 = 50 - 3x$$

Part 2) Solve and graph each inequality

$$3)^{\frac{1}{2}}(x+7) \le 2(3x-1)$$

4) 
$$-12 > \frac{2}{3}c + 4$$

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1	Part 3) Write the inequality that describes the situation a	and SOLVE	
		ate and Company B charges \$15 plus a flat rate of \$300. When	n is
	<ul><li>Each class room in school can have no more than</li><li>The minimum fine for speeding is \$172.50 :</li></ul>		
	Solve each equation.  1) -7 (2b+3)=-7	2) 47=-4(3n+1)+3	
	Solve each inequality and graph its solution.		
	3) 20 < 5(1+2)	-4) 6 (1+4v) +4v 4 -22	
	<del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>	<del>(1111)</del>	
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	quations (Section 6.1-6.2)	
Answers &		
N	2) n=-6 3) m=-1 4) r=1 5) x=0	
1) X=4		
6) n=8	7) $b=2$ 8) $y=8$ 9) $\chi=-13$ 10) $\chi=\frac{16}{3}$	
11) $x = \frac{-51}{2}$	12) K= -4 13) h=7	
11) X - 2	14) K- 1 13) N 1	
Inequalities Answers 8	ICA (Section 6.3-6.5)	
Miswers o		
1) y ≤ 8	2) c≥-13 3) c>-12 4) K <-7 5) K	>3
6) a≥8	7) a < -5 8) K > 4 1) m = 87 2) C	>20
Φ/ W = 0		
	nations & Inequalities (Test review day 2)	
Unit 6 - Equ Answers 8	nations & Inequalities (Test review day 2)	
Answers 8	2) $\chi = -\frac{4}{5}$ 3) $\chi = -9$ 4) $\chi = -4.09$ 5) $\chi = \frac{21}{8}$ 6	) x=3
Answers & Part A  1) x=3		) x=3
Answers &  Part A  1) x=3  Part B	2) $\chi = -\frac{4}{5}$ 3) $x = -9$ 4) $\chi = -4.09$ 5) $\chi = \frac{21}{8}$ 6	) x=9
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Answers &  Part A  1) x=3  Part B  1) x ≤-11	2) $\chi = -\frac{4}{5}$ 3) $x = -9$ 4) $\chi = -4.09$ 5) $\chi = \frac{21}{8}$ 6	) x=3
Answers &  Part A  1) x=3  Part B  1) x ≤-11  Part C	2) $\chi = \frac{-4}{5}$ 3) $\chi = -9$ 4) $\chi = -4.09$ 5) $\chi = \frac{21}{8}$ 6	) x=3