Test Review Questions

Page 308 - 309		Page 310(Practice test)
#3	#10	#2
#4	#11	#3
#7	#15	#4
#8	#16	#5
		#6

Test on Wednesday Feb 27

As well you have a Worksheet

Warm-UP

Test Tomorrow

Solve and graph the following:

1) $6y - 5 = 19.5$

2) $\frac{2x}{7} + 3 = -5$

3) $-4x + 10 < -7x - 5$

4) $\frac{1}{2}(x + 5) \geq \frac{2}{3}(x - 6)$

5) $6x - 2x + 5 - 3 = -14 - 3x + 5x + 4$

Warm-UP

Test Tomorrow

Solve and graph the following:

1) $6y - 5 = 19.5$ (+5, +5)

$\frac{6y}{6} = \frac{24.5}{6}$

$y = \frac{245}{60} = 4.08$

Verify

LH: $6y - 5$

$6\left(\frac{245}{60}\right) - 5$

$245 - 5$

19.5

RH: 19.5

2) $\frac{2x}{7} + 3 = -5$ (×7, ×7, ×7)

$2x + 21 = -35$ (−21, −21)

$\frac{2x}{2} = \frac{-56}{2}$

$x = -28$

Verify

LH: $\frac{2x}{7} + 3$

$\frac{2(-28)}{7} + 3$

$-8 + 3$

-5

RH: -5

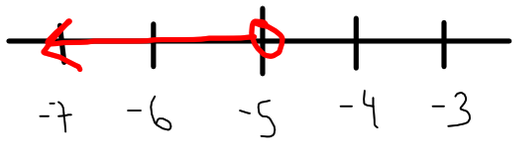
3) $-4x + 10 < -7x - 5$

$+7x \quad +7x$

$3x + 10 < -5$ $-10 \quad -10$

$\frac{3x}{3} < \frac{-15}{3}$

$x < -5$



Verify: $x < -5$

x	LH	<	RH
-6	$-4x - 10$		$-7x - 5$
	$-4(-6) - 10$		$-7(-6) - 5$
	$24 - 10$		$42 - 5$
	14	$<$	37

True

4) $\frac{1}{2}(x + 5) \geq \frac{2}{3}(x - 6)$

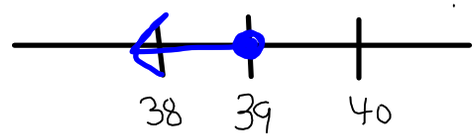
$\frac{x}{2}(6) + \frac{5}{2}(6) \geq \frac{2x}{3}(6) - \frac{12}{3}(6)$

$3x + 15 \geq 4x - 24$ $-3x \quad -3x$

$15 \geq x - 24$ $+24 \quad +24$

$39 \geq x$

$x \leq 39$



Warm-UP

Test Tomorrow

Solve and graph the following:

5) $6x - 2x + 5 - 3 = -14 - 3x + 5x + 4$

$4x + 2 = 2x - 10$

$4x^{-2x} + 2 = 2x^{-2x} - 10$

$2x + 2^{-2} = -10^{-2}$

$\frac{2x}{2} = \frac{-12}{2}$

$x = -6$

Solve and graph the following:

(Show all work)

$$-2.5v + 4.7 \geq -3.8v + 1.58$$

$+3.8v \qquad +3.8v$

$-2.5v + 4.7 \geq -3.8v + 1.58$

$1.3v + 4.7 \geq 1.58$

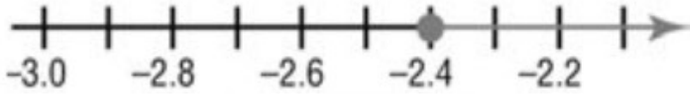
$-4.7 \qquad -4.7$

$1.3v + 4.7 \geq 1.58$

$1.3v \geq -3.12$

$$\frac{1.3v}{1.3} \geq \frac{-3.12}{1.3}$$

$v \geq -2.4$



Name_____

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) Ted 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

90

Math 9

Name _____

Inequalities ICA

Per/Sec. _____ Date _____

Solve and graph. Show all work (Section 6.3 – 6.5)

1. $-3y \geq 24$

2. $-2c \leq 26$

3. $4 - c < 16$

4. $15 < -k + 8$

5. $3k + 8 \geq 17$

6. $-9 \leq 2a - 25$

7. $21 < -4 - 5a$

8. $-3k + 14 < 2$

9. $-9x + 71 \geq 17$

10. $-25 < -4c - 13$

Write a scenerio for each situation.

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

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

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

4) $3.2(x + 7.2) = 1.2(4.2 - x)$

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

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

Part 2) Solve and graph each inequality

1) $3x + 7 \geq 4x + 18$

2) $18x - 10 < 44$

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

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

Part 3) Write the inequality that describes the situation and SOLVE

1) To cater a wedding Company A charges $40 a plate and Company B charges $15 plus a flat rate of $300. When is it COMPANY B less than Company A?

2) Each class room in school can have no more than 29 students: _____

3) The minimum fine for speeding is $172.50 : _____

4) In order to pass the next test you must make a mark of 60 or greater: _____

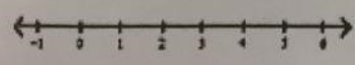
Solve each equation.

1) $-7(2b+3)=-7$

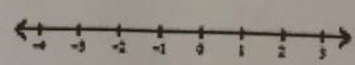
2) $47=-4(3n+1)+3$

Solve each inequality and graph its solution.

3) $20 < 5(1+x)$



4) $6(1+4v)+4v \leq -22$



Chapter 6 : Test Review Worksheets

Solving Equations (Section 6.1 - 6.2)

Answers :

1) $x=4$ 2) $n=-6$ 3) $m=-1$ 4) $r=1$ 5) $x=0$

6) $n=8$ 7) $b=2$ 8) $v=8$ 9) $x=-13$ 10) $x=\frac{16}{3}$

11) $x=\frac{-51}{2}$ 12) $k=-4$ 13) $h=7$

Inequalities ICA (Section 6.3 - 6.5)

Answers :

1) $y \leq 8$ 2) $c \geq -13$ 3) $c > -12$ 4) $k < -7$ 5) $k > 3$

6) $a \geq 8$ 7) $a < -5$ 8) $k > 4$ 1) $m \geq 87$ 2) $c > 20$

3) $h < 2.5$

Unit 6 - Equations & Inequalities (Test review day 2)

Answers :

Part A

1) $x=3$ 2) $x=\frac{-4}{5}$ 3) $x=-9$ 4) $x=-4.0\overline{9}$ 5) $x=\frac{21}{8}$ 6) $x=3$

Part B

1) $x \leq -11$ 2) $x < 3$ 3) $x \geq 1$ 4) $c < -24$

Part C

1) $p > 12$ 2) $c \leq 29$ 3) $m \geq 172.50$ 4) $m \geq 60$

Part D

1) $b=-1$ 2) $n=-4$ 3) $x > 3$ 4) $v \leq -1$

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

1) $x = 3$ 2) $x = \frac{-4}{5}$ 3) $x = -9$

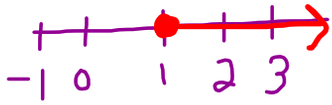
4) $x = -4.0\overline{9}$ 5) $x = \frac{21}{8}$ 6) $x = 3$

Part 2 Solve and graph each inequality

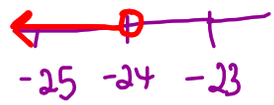
1) $x \leq -11$

2) $x < 3$

3) $x \geq 1$



4) $c < -24$



Part 3) Write the equation that describes the situation and then solve

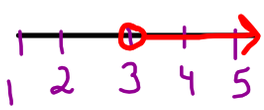
1) $p > 12$ 2) $c \leq 29$ 3) $m \geq 17250$ 4) $m \geq 60$

Solve each equation/inequality

1) $b = -1$

2) $n = -4$

3) $x > 3$



4) $v \leq -1$