

1- 6/25/2014

6-26-14

Scrolled down!

QUIZ 3 MATH 65 SU 14; **THE FIRST 10 PROBLEMS ONLY** ARE IN-CLASS. **PROBLEMS 11 to 14** are TAKE HOME.

1. Sec. 2.4

(a) 15 is what percent of 60? Translate this AND SOLVE. (b) What number is 30 % of 240? Translate this AND SOLVE

2. Sec. 2.4. *Translate and Solve* for x in percent form: 6 is what percent of 24 ?3. Sec. 2.4. *Translate and Solve*. What number is 20 % of 80 ?

SECTION 2.5 BELOW

4. Translate. Three less than twice a number is 19.

5. What is the solution to the CORRECT answer to previous problem ?

6. Sec. 2.5. The perimeter of a rectangle is $P = 56$ m. The length L is 4 m more than the width W . What is the width W ? What is the length L ?7. Sec. 2.5. A car race extends for a total distance of 300 miles, *starting* at Station A and *ending* at Station B. If a "muscle" car is twice as far from Station A as from Station B, then what is the car's distance from Station B? What must be the distance of the car from station A?SECTION 2.6 BELOW. Solve and graph on a *horizontal number line*.8. Sec. 2.6. Solve and graph. $9 + 4y < 33$ 9. Sec. 2.6 Solve and graph. $30 < -10x$

10. SEC. 2.6 FOR EACH PART BELOW, DETERMINE WHETHER EACH NUMBER IS A SOLUTION TO THE INEQUALITY: SUBSTITUTE THE NUMBER INTO THE INEQUALITY. IF THE NUMBER IS A SOLUTION, WRITE "YES"; IF NOT, WRITE "NO".

 $x < 18$

(a) 17.99 (b) 18.01 (c) 18

TAKE HOME BELOW

11. SEC. 2.6. SOLVE AND GRAPH: $(x + 3) + 9 > 3(x - 2) - 10$

12. SEC. 2.7. RJ'S PLUMBING AND HEATING CHARGES \$55 PLUS \$40 PER HOUR FOR EMERGENCY SERVICE. CHARLOTTE REMEMBERS BEING BILLED *AT LEAST* \$215 FOR AN EMERGENCY CALL. HOW LONG (IN HOURS) WAS RJ'S SERVICE AT HER HOME?

2-6/25/2014

13. SEC. 2.7. LESLIE'S FIRST FOUR QUIZ GRADES ARE 73, 75, 89 AND 91. SHE WANT TO EARN AN AVERAGE OF AT LEAST 85 % . WHAT SCORE ON THE 5TH QUIZ WILL HER AVERAGE QUIZ GRADE BE AT LEAST 82?

SEC. 3.1.

14. PLOT EACH POINT: (1, 1), (2, -2), (-1, 4), (-2, -5), (0, 4), (-3, 0) ; USE ATTACHED GRAPH PAPER.

Quiz 3 PT 1 solutions

1.

$$15 = n \cdot 60$$

$$\frac{15}{60} = n$$

$$0.25 = n$$

$$n = 25\%$$

6.

$$x = (0.30)(240)$$

$$x = 72$$

2.

$$6 = n \cdot 24$$

$$\frac{1}{4} = n$$

$$n = 25\%$$

3.

$$n = (0.20)(80)$$
$$= 16$$

4.

$$2x - 3 = 19$$

$$2x = 22$$

$$x = 11$$

5.

6.

$$56 = 2L + 2W$$

$$56 = 2 \cdot (4 + W) + 2W$$

$$56 = 8 + 2W + 2W$$

$$56 = 8 + 4W$$

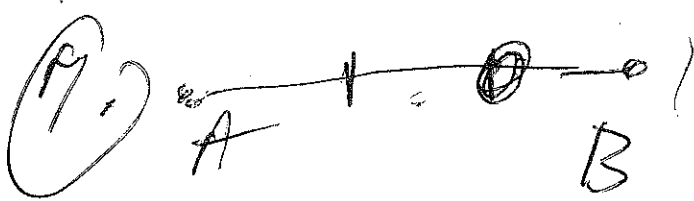
$$56 - 8 = 4W$$

$$48 = 4W$$

$$12 = W$$

$$L = 10$$

2-6/25/2014



$3d = 300 \text{ miles}$

FROM B: $d = 100 \text{ miles}$.

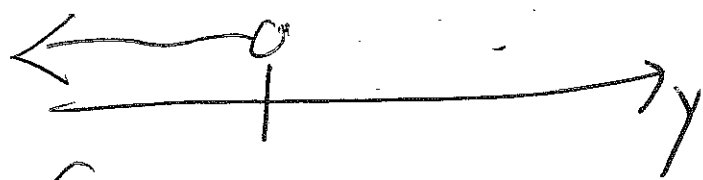
$2d = 200 \text{ miles from A.}$

(8)

$$9 + 4y \leq 33$$

$$4y \leq 24$$

$$y \leq 6$$



(9.) $30 < -10x$

$$\begin{array}{r} 30 > -10x \\ -10 & \\ \hline -3 > x \end{array}$$



(10.) $x < 18$; T. = TRUE
F. = FALSE

(a) $17.99 < 18$ (T.)

(b) $18.01 < 18$ (F.)

(c) $18 < 18$ (F.)