

1- 6/25/2014

6-26-14 and 6-30-14
 Scribble 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.

QWIZ 3 PT 1 solutions

1.

$$15 = n \cdot 60$$

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

$$0.25 = n$$

$$n = 25\%$$

$$(b.) X = (0.30)(240)$$

$$X = 72$$

$$(2.) 6 = n \cdot 24$$

$$\frac{6}{24} = n$$

$$n = 25\%$$

3.

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

4.

$$2x - 3 = 19$$

$$2x = 22$$

$$x = 11$$

5.

6.

$$56 = 2L + 2W$$

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

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

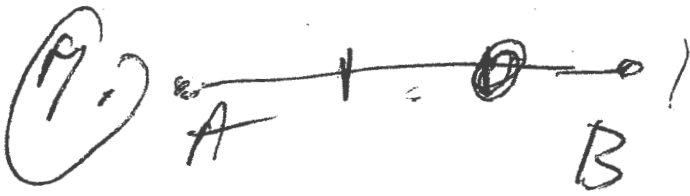
$$56 = 8 + 4W$$

$$56 - 8 = 4W$$

$$48 = 4W$$

$$12 = W$$

$$L = 10$$

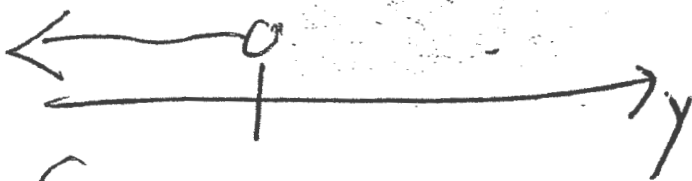


$3d = 300 \text{ miles}$

$d = 100 \text{ miles}$

200 miles

(8) $9 + 4y < 33$
 $4y < 24$
 $y < 6$



(9) $30 < -10x$

$30 > -10x$
 $\frac{30}{-10} > \frac{-10x}{-10}$

$-3 > x$



(10.)

$x < 18$; T. = TRUE
 F. = FALSE

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

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

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

(11.) $(x+3) + 9 > 3(x-2) - 10$

$x + 3 + 9 > 3x - 6 - 10$

$x + 12 > 3x - 16$

$12 > 2x - 16$

$28 > 2x$

$14 > x$



(12)

$$215 \leq 35 + 40t$$

$$160 \leq 40t$$

$$4t \leq t$$

(13)

$$\frac{\overset{148}{93+75} + \overset{180}{89+91} + x}{5}$$

= score

$$\text{score} \geq 82$$

$$\frac{328 + x}{5} \geq 82$$

$$328 + x \geq 410$$

$$x \geq 82$$

(14)

