

CRN = : 10113

QUIZ 2

IN-CLASS: # 1 – 12 .

1. **SEC. 1.7 Multiply.** $(-3)*(-24)*(-1000)*(-1)*(-1)$

2. **Sec. 1.7. Multiply the three fractions:** $(-\frac{7}{4})*(-\frac{3}{5})*(-\frac{1}{2})$

3. **Sec. 1.7. What is the reciprocal of $\frac{2}{3}$? Check your answer.**

4. **Sec. 1.7. What is the reciprocal of $\frac{51}{10}$? Check your answer.**

5. **Sec. 1.7. Subtract:** $(\frac{4}{7}) - (-\frac{6}{7})$

6. **Sec. 1.8 Simplify.** $3 - 20 + 2*17$

7. **Sec. 1.8 Simplify** $3^2 + 4^2 - 15 \div 3$

8. **Sec. 1.8. Simplify:** $3^2 + 4^2 \div 2*2^2$

9. **Evaluate:** $9 + 4x^2$ for $x = -2$

10. **Simplify.** $7x^2 + 4x - 2(x + 12x^2)$

11. **Sec. 2.1. Solve for x.** $-6 + x = 21$

12. **Sec. 2.1. Solve for y.** $\frac{y}{3} = \frac{2}{7}$.

TAKE HOME ; SHOW WORK.

13. **Sec. 2.2 Solve for x:** $5x - 80 = 270$

14. **Sec 2.2 Solve for x:** $4(3 + 4x) - 6 - 8x = 38$. **HINT: DISTRIBUTE AND COLLECT LIKE TERMS AS NEEDED. Then solve for x using addition *OR* subtraction *and* division.**

15. **Solve for w :** $B = 5w - 5N$

16. **Solve for h:**

$$W = \frac{1}{2}ah - \frac{1}{2}bh$$

17. **Sec. 2.3 Solve for m .** $n = -y + 8(x + m)$

18. **Sec. 2.4 8 is what percent of 24? Translate this AND SOLVE.**

19. **Sec. 2.4. Translate AND SOLVE. What number is 20 % of 22.5 ?**

Quiz 2 solutions

1.

$$\underbrace{(-3)(-24)}_{\text{pos}} \cdot \underbrace{(-1000)(-1)(-1)}_{\text{neg}}$$

$$= \text{neg} = -72000$$

2. neg

$$= -\frac{21}{40}$$

3. $\frac{3}{2}$

4. $\frac{10}{51}$

$$5. \frac{4}{7} + \frac{6}{7} = \frac{10}{7}$$

$$6. 3 - 20 + 2 \cdot 17 \\ = 3 - 20 + 34 \\ = -17 + 34 = 17$$

7.

$$3^2 + 4^2 - 15 \div 3$$

$$= 9 + 16 - 5$$

$$= 25 - 5 = 20$$

8.

$$3^2 + 4^2 \div 2 \cdot 2^2$$

$$= 9 + 16 \div 2 \cdot 4$$

$$= 9 + 8 \cdot 4$$

$$= 9 + 32 = 41$$

9.

$$9 + 4x^2$$

$$= 9 + 4(-2)^2 = 9 + 4 \cdot 4$$

$$= 9 + 16$$

$$= 25$$

10.

$$7x^2 + 4x - 2 \cdot (x + 12x^2)$$

$$= 7x^2 + 4x - 2x - 24x^2$$

$$= -17x^2 + 2x$$

QUIZ 2

(11.)

$$-6 + x = 21$$

$$\begin{array}{r} +6 \quad +6 \\ \hline \end{array}$$

$$x = 27$$

(12.)

$$\frac{y}{3} = \frac{2}{7}$$

clear fraction

$$3 \cdot \frac{y}{3} = 3 \cdot \frac{2}{7}$$

$$y = \frac{6}{7}$$