

6-26-14 SCROLL DOWN!

QUIZ 2 MATH65-083 | 2014

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.

$$\frac{0}{51}$$

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.)

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

clear fraction

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

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

(13.)

$$5x - 80 = 270$$

$$5x = 350$$

$$x = 70$$

(14.) $4 \cdot (3 + 4x) - 6 - 8x$ (2)

$$= 38$$

$$\Rightarrow 12 + 16x - 6 - 8x = 38$$

$$6 + 8x = 38$$

$$8x = 32$$

$$x = 4$$

(15.)

$$B = 5W - 5N$$

$$B + 5N = 5W$$

$$\frac{B + 5N}{5} = W$$

OR

$$\frac{B}{5} + N = W$$

Quiz 2

(16.)

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

$$2W = ah - bh$$

$$2W = (a-b)h$$

$$\frac{2W}{(a-b)} = h$$

(17.)

$$m = -y + 8(x + 4m)$$

$$m = -y + 8x + 32m$$

$$m + y - 8x = 32m$$

$$\frac{m + y - 8x}{8} = m$$

(18.)

3

$$8 = n \cdot 24$$

$$\frac{8}{24} = n$$

$$n = 0.333$$

$$n = 33.3\%$$

(19.)

$$x = (0.20)(22.5)$$

$$x = 4.5$$