Name _____Key_____

Chapter 7 Practice Test

Do NOT answer questions with only "mental math"- show all steps to receive credit.

Solve each equation. (1 point each)

1. $w + 75 = 11\cancel{2}$ ⁰

$$\frac{-75 \quad -75}{w = \quad 37}$$

2. $25.\cancel{1}=s+2.3$ (⁴)

$$\frac{-2.3 \quad -2.3}{22.8 = s}$$

$\frac{5}{6} - \frac{2}{3} = \frac{5}{6} - \frac{4}{6} = \frac{1}{6}$

3. $y + \frac{2}{3} = \frac{5}{6}$

$$\frac{-2}{3} \quad \frac{-2}{3}$$

$$y = \frac{1}{6}$$

4. $c - 21 = 74$

$$\frac{+21 \quad +21}{c = 95}$$

5. $17g = 102$

$$\frac{17}{17}$$

$$g = 6$$

$17 \overline{)102} \quad \begin{array}{r} 4 \quad 6 \\ \end{array}$

$$\frac{-102}{0}$$

Name _____Key_____

6. $82.6 = 4.9z$

$$\frac{}{4.9} \quad \frac{}{4.9}$$

$$4.9 \overline{)82.6} \quad 16.85$$
$$-49$$
$$\overline{336}$$
$$294$$
$$\overline{420}$$
$$-392$$
$$\overline{280}$$
$$-245$$
$$\overline{35}$$

7. $\dfrac{8}{3} \cdot d = \dfrac{9}{16} \cdot \dfrac{8}{3}$

$d = \dfrac{3}{2}$ or $1\frac{1}{2}$

8. $\dfrac{1}{3} \cdot 21 = \dfrac{h}{13} \cdot 13$

$h = 273$

$$21$$
$$\times 13$$
$$\overline{63}$$
$$21\,0$$
$$\overline{273}$$

9. $\dfrac{1}{11} \cdot 6.1 = \dfrac{w}{11} \cdot 11$

$w = 67.1$

$$6.1$$
$$\times 11$$
$$\overline{61}$$
$$61\,0$$
$$\overline{67.1}$$

10. $\dfrac{x}{4} = 30 \cdot 4$

$x = 120$

11. $7.4x = 37.6$

$$\frac{}{7.4} \quad \frac{}{7.4}$$

$x = 5.08$

$$7.4 \overline{)37.6} \quad 5.081$$
$$37\,0$$
$$\overline{600}$$
$$592$$
$$\overline{80}$$
$$74$$
$$\overline{6}$$

Name _____ key _____

Write the appropriate equation and solve each problem (2 points each)

12. Isaiah earned 87 points on his math test. This is 14 points more than the number of points he earned on his history test. Write and solve an addition equation to find the number of points Isaiah earned on his history test.

x = points of history test

$$x + 14 = 87$$
$$-14 \quad -14$$
$$x = 73$$

13. After buying a jacket that cost $64, Marilyn had $9 left in her wallet. Write and solve a subtraction equation to find the amount of money Marilyn had in her wallet before she bought the jacket.

x = money in wallet

$$x - 64 = 9$$
$$+64 \quad +64$$
$$x = 73$$

14. The difference between the greatest and least weights of puppies in a shelter is 31 pounds. The lightest puppy weighs 7 pounds. Write and solve a subtraction equation to find the weight of the heaviest puppy.

x = weight of greatest puppy

$$x - 7 = 31$$
$$+7 \quad +7$$
$$x = 38$$

Name _____K_R_____

15. Tomás earned $58 for cleaning the garage. He was paid $7.25 per hour. Write and solve an equation to find how many hours it took him to clean the garage.

$x =$ # of hours cleaning garage

$$7.25x = 58$$
$$\frac{7.25x}{7.25} = \frac{58}{7.25}$$

$$7.25\overline{)58.00}$$

8 hours

16. Emiko needs to go to the dentist. It takes her 30 minutes to get there if she rides her bike. This is twice the time it would take if she took the bus. Write and solve an equation to find how long it takes Emiko to get to the dentist by bus.

$x =$ time on bus

$$2x = 30$$
$$\frac{2x}{2} = \frac{30}{2}$$

$x = 15$ minutes

17. There were 105 students that voted for Jamison to be the student council president. This is one fourth of the number of students that voted. Write and solve an equation to find the number of students who voted.

$x =$ # of students that voted

$$\frac{1}{4}x = 105$$

$$4 \cdot \frac{x}{4} = 105 \cdot 4$$

$x = 420$ students total

18. Fred is making a bouquet of carnations and roses. The carnations cost $7 in all. The roses cost $1.21 each. How many roses did Fred use if the bouquet cost $13.05 in all?

BONUS!!

$1.21x + 7 = 13.05$ ← This is a hint...!

$x = ?$