Name:	 	

Ratent Signature: Date:

Pre-Algebra CHAPTER 7 Test PRACTICE 2

Homeroom:

1)
$$11a - 13 = 72.8$$

+/3 +/3

$$11a = 85.8$$
 $\div 11 \div 11$
 $a = 7.8$

Answers

2)
$$\frac{m}{4} + 6 = 29$$

 $-6 - 6$
 $\frac{m}{4} = 23$
 $\times 4$

$$m = 92$$

$$2)m = 92$$

3)
$$-123 - c = -192$$

+123 +123

$$-c = -69$$

 $\div -1$

3)
$$C = 69$$

$$12d + 10 = 38.8$$

 $-10 = -10$

$$12d = 28.8$$

 $12d = 12$
 $12d = 2.4$

Solve. (2pts each)
5)
$$9(e^{-7}) = -30.6$$

$$9\dot{e} - 63 = -30.6$$

+63 +63

$$3.5f + 1 = 267$$

$$3.5f = 266$$

 $\div 3.5 \div 3.5$

6)
$$f = 76$$

Solve. (3pts each)
7)
$$\frac{1}{3}(g+9) = 3\frac{7}{24}$$

$$\frac{1}{3}g + 3 = 3\frac{7}{24}$$

$$\frac{1}{39} = \frac{7}{24} + \frac{1}{3} = \frac{7}{824} \times \frac{3}{1} = \frac{21}{24} = \frac{7}{8}$$

$$\frac{1}{39} = \frac{7}{8}$$

7)
$$g = \frac{7}{8}$$

8)
$$\frac{2}{7}(h-2)=3\frac{4}{7}$$

$$\frac{2}{7}h - \frac{4}{7} = 3\frac{4}{7}$$

$$\frac{2}{7}h = \frac{4}{7} + \frac{2}{7}$$
 $\frac{29}{14} \times \frac{21}{2} = \frac{29}{12} = \frac{14}{2}$

8)
$$h = 14\frac{7}{2}$$

9)
$$\frac{4}{5}(m-5)=12$$

$$\frac{45}{5}m - 4 = 12
+ 4 = 16
+ 4 = 16
+ 4 = 20$$

$$m = 20$$

9)
$$m = 20$$

10) On Tuesday Sarah bought five hats. On Wednesday she gave half of all the hats she had to charity. On Thursday she had 17 hats left. How many hats did she have on Thursday?

$$\frac{3c+5}{2} = 17_{*2}$$

$$2 \times 2 \times 5 = 34$$

$$-5 -5$$

$$3c = 79$$

11) Together Mrs. B, Mr. T and Miss S have 285 tests to grade. Mrs. B has *n* tests. Mr. T has one more than Mrs. B. Miss S has one more than Mr. T. Write an equation and solve to find out how many tests Mrs. B has to grade.

$$(n) + (n+1) + (n+2) = 285$$

$$3n + 3 = 285$$

$$-3 - 3$$

$$3n = 282$$

$$\div 3$$

$$n = 94$$

12) Dwayne is taking an art class. He bought some drawing pencils for \$0.97 each and 1 sketchpad for \$5.95. He paid \$11.77. Write an equation and solve to find out how many pencils Dwayne bought.

$$0.97p + 5.95 = 11.77$$

$$-5.95 - 5.95$$

$$0.97p = 5.82$$

$$0.97$$

$$0.97$$

$$0.97$$

$$0.97$$

$$0.97$$

$$n-5 = 3n + 18$$

$$-5 = 2n + 18$$
 -18

$$-23 = 2n$$

$$\frac{.2}{-11.5} = n$$

$$5m + 72 = ||2m| - 30| + 4$$

$$|5m|+72| = |12m|-26|$$

 $-5m$ $-5m$
 $72 = 7m - 26$
 $+26$

$$13)N = -11.5$$

15)
$$3(x+6) = 4(x-9)$$

$$|3x| + 18| = |4x| + 36|$$

-3x -3x

$$18 = 2 - 36$$

+36 + 36

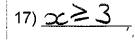
16)
$$-\frac{2}{5}x - 6 < 4 + 6$$

$$-\frac{2}{5} \times 10^{-2} = \frac{5}{10} \times \frac{5}{2} = -\frac{25}{1}$$

$$16) \times > -25$$

Solve the inequalities. Graph the inequality. (2pts each)

17)
$$19 + 8 \le 6 + 7x$$



18)
$$-1 > \frac{12+x}{4} \times 4$$

$$-16 > \infty$$
 or $\infty < -16$

$$18) \times < 16$$

Solve for the variable bolded. (2pts each)

19)
$$2m = a + 6z$$

$$10m = a + 6z$$

 $10m - 6z = a$

20)
$$3y + 7 = z$$

$$3y = \frac{z-7}{3}$$

$$y = \frac{z-7}{3}$$

$$y = \frac{z - 7}{3}$$

21)
$$v = u + 9$$
 $-9 = -9$

$$6(V-9)=u \text{ or } u=6V-54$$

21)
$$u = 6(v-9)$$

or $u = 6v-54$