Math 7 - Chapter 4 Equations Review 2 Worksheet

30 Q, 25 pt

Problems 1-8: Translate the following expressions and equations into verbal sentences. You may use ONLY the following terms: sum, difference, product, quotient, more than, less than, is, number.

- 1. x+5 5 more than a number, the sum of a number 5. x+3=-12 3 more than a number is -12 and 5 the sum of a number and 3 is -12
- 2. y-7 7 less than a number, the difference of a number and 7
- 3. 4x the product of 4 and a number
- 4. $\frac{y}{-2}$ the quotaent of a number and -2
- 6. 5=y-4 5 is 4 less than a number 5 is the difference of a number and 4
- 7. 3x+4=16 4 more than the product of 3 and a number is 16.
- 8. -24 = 4y 4 -24 is 4 less than the product of 4 and a number

Problems 9-20: Solve and check each equation.

9.
$$y-7=-9$$
 $y=-2$

10.
$$-15x = -60$$
 $\chi = 4$

11.
$$17 = \frac{x}{-4}$$
 $\chi = -68$

12.
$$-3.3x = -99$$
 $\chi = 30$

13.
$$18 = -\frac{5}{6}x$$
 $\chi - 2/\frac{3}{5}$

14.
$$-5r + 6 = 21$$
 $r = -3$

15.
$$7p + 38 = 3$$
 $\rho = -5$

16.
$$2b-23=-29$$
 $b-3$

17.
$$-9g - 17 = 46$$
 $9 - 7$

18.
$$19.2 + 4.8a = 33.6$$
 $a = 3$

19.
$$\frac{x}{12} - \frac{1}{3} = \frac{5}{6}$$
 $x = 14$

20.
$$-5(x-3) = -30$$
 $\chi = 9$

Problems 21-25: Translate each sentence into an equation, then find the number.

- 21. The sum of a number and negative seven is -13. $\chi + (-7) = -13$ $\chi = -6$
- 22. The difference of a number and negative eleven is 36. $\chi (-11) = 36$ $\chi = 25$
- 23. Three times the difference of a number and six is 6. 3(x-6)=6
- 24. Fourteen more than the quotient of a number and four is 13. $\frac{x}{4} + 15 = 13$ x = -8
- 25. Thirty-seven is four times a number less than five. 37 = 5 4x x = -8