Math 9

Name_

6.2 Part 1 - Solving Multi-Step Equations

Solve each equation.

1)
$$2-5x = -6x-4$$
 2) $-2+5b = 4+4b$

3) 3n - 1 = -13 + 6n4) -2 + 8m = 4m + 6

5) -2 - 3v = -4v + 4

6) 8k - 2 = 10 + 4k

7) -10 + 4m = 5m - 28) 2 - 8x = 2 + 8x Block____

9) 8k + 6 = k + 6

11) x + 5.9 = 7.349 + 0.31x

12) 8.3 - 2.9b = -0.9b + 6.7

13)
$$-4(x-6) = 7x - 9$$

14) $13 - 3b = 5(4b - 2)$

15)
$$8(n+7) = -7n - 34$$
 16) $7p + 5 = 2(7p - 1)$

17) 3(5+n) = -29 - 8n

18) Five subtract 3 times a number is equal to 3.5 times the same number, subtract 8.Write, then solve an equation to determine the number.

- 19) Two rental halls are considered for a wedding. Hall A costs \$50 per person. Hall B costs \$2000, plus \$40 per person. Write and solve an equation to determine the number of people for which the halls will cost the SAME to rent.
- 20) Henry has a choice of two companies to rent a car. Company A charges \$199 per week, plus \$0.20 per km driven. Company B charges \$149 per week, plus \$0.25 per km driven. Write and solve an equation to determine the distance Henry must drive for the two rental costs to be the SAME.

Answers to 6.2 Part 1 - Solving Multi-Step Equations

1) {-6}	2) {6}	3) {4}	4) {2}
5) {6}	6) {3}	7) {-8}	8) {0}
9) {0}	10) {5}	11) {2.1}	12) {0.8}
13) {3}	14) {1}	15) $\{-6\}$	16) {1}
17) {-4}	18) The number is 2.	19) 200 people	20) 1000 km