Math 9 Name_____

6.1 Part 2 - Solving Two-Step Equations

Block____

Solve each equation.

1) $99 = 3 + 6x$

2) $5x + 1 = 6$

3) $11 = 5 + \frac{x}{3}$

4) $-2k - 5 = -27$

5) $-54 = 6(x + 1)$

6) $4 = \frac{k}{4} + 6$

7) $-3 = -a + 10$

8) $9(p - 10) = -63$

9) $-31 = 2v + 5$

10) $-12 = -3(r + 9)$

11) $0.4 + 2.5v = 31.4$

12) $29.12 = -1.6(n - 9.4)$

13) $32.91 = -7.35 - 6.1m$

14) $99.1 = -0.3 + 7n$

15) $-4.4 = -0.9 + \frac{v}{5.6}$

16) $72.98 = 4.6n - 4.3$

17) Erica is thinking of a decimal number. If you divide her number by 3 then subtract 13.5, the result is 2.8. Write and solve an equation to determine her number.

18) A rectangle has width 1.2 cm and perimeter 6.6 cm. Find the length of the rectangle by writing a solving an appropriate equation.

19) Stephanie has a job in sales. She earns a monthly salary of $2500, plus a commission of 8% of her sales. One month, she earned a total of $2780. Write and solve an equation to determine her sales for that month.

20) A taxicab charges $2.50, plus $1.78 per kilometre. If a trip costs $21.19, write and solve an equation that will allow you to determine the length of this trip.

Answers to 6.1 Part 2 - Solving Two-Step Equations

1) $\{16\}$
2) $\{1\}$
3) $\{18\}$
4) $\{11\}$
5) $\{-10\}$
6) $\{-8\}$
7) $\{13\}$
8) $\{3\}$
9) $\{-18\}$
10) $\{-5\}$
11) $\{12.4\}$
12) $\{-8.8\}$
13) $\{-6.6\}$
14) $\{14.2\}$
15) $\{-19.6\}$
16) $\{16.8\}$
17) 48.9
18) 2.1 cm
19) $3500
20) 10.5 km