Solving Equations

Name			Period	
Solve	e each equation. Check your work	ζ.		
1.	3x + 7 = 28	2.	$\frac{x}{3} - 7 = 5$	What difference do you notice between the equations on numbers two and four?
3.	3(3x-2) = 30	4.	$\frac{3x+9}{3} = 2$	How does this affect the way you solve them?

Equations for numbers 5 and 6 are the same as the equations for 3 and 4. Try to solve them using a different first step. Look at them carefully and think about how you might eliminate a part of the equation or utilize the distributive property.

5.
$$3(3x-2) = 30$$
 6. $\frac{3x+9}{3} = 2$

7.
$$\frac{r}{-2} + 7 = 18$$
 8. $\frac{n+7}{-2} = 5$

Solve each equation.

1)
$$6 = \frac{a}{4} + 2$$
 2) $-6 + \frac{x}{4} = -5$

3)
$$9x - 7 = -7$$

4) $0 = 4 + \frac{n}{5}$

5)
$$-4 = \frac{r}{20} - 5$$
 6) $-1 = \frac{5+x}{6}$

7)
$$\frac{v+9}{3} = 8$$

8) $2(n+5) = -2$

9)
$$-9x + 1 = -80$$

10) $-6 = \frac{n}{2} - 10$

11)
$$-2 = 2 + \frac{v}{4}$$
 12) $144 = -12(x+5)$

15)
$$8n + 7 = 31$$
 16) $-9x - 13 = -103$

17)
$$\frac{n+5}{-16} = -1$$
 18) $-10 = -10 + 7m$

$$19) -10 = 10(k - 9) 20) \frac{m}{9} - 1 = -2$$

21)
$$9 + 9n = 9$$
 22) $7(9 + k) = 84$

23)
$$8 + \frac{b}{-4} = 5$$
 24) $-243 = -9(10 + x)$