

## Assignment 10: Solving Equations

**Solve each equation.**

1)  $x - 6 = 4$

2)  $r + 1 = -7$

3)  $n - 1 = -6$

4)  $-6v = -48$

5)  $-7x = 28$

6)  $\frac{x}{6} = 8$

7)  $-5a + 6a = -1$

8)  $-5 + k + 5 = -3$

9)  $-9 = 5p - 2p$

10)  $11 = 1 + 6x - 4x$

11)  $6n - 4n = 0$

12)  $0 = -5m - 4m$

13)  $-7x + 21 = 4(x + 8)$

14)  $12 + 4r = 2(1 + 3r)$

15)  $-5 - n = 6(n + 8) - 4$

16)  $-7(8 + 7b) = -2 + 5b$

17)  $-12 + 2x = 3(4x - 7) - 7x$

18)  $-6n - 30 = 6(7n + 3)$

19)  $-28 - 8v = 6 + 6(1 - 8v)$

20)  $40 - 4a = -4 + 4(a + 7)$

21) Willie wants to buy a comb that costs \$3. How much change does he receive if he gives the cashier \$5?

22) A recipe for a cake calls for 6 cups of sugar. Eugene accidentally put in 8 cups. How many extra cups did he put in?

23) Trevon had some candy to give to his three children. He first took six pieces for himself and then evenly divided the rest among his children. Each child received two pieces. With how many pieces did he start?

24) Darryl's Bikes rents bikes for \$16 plus \$6 per hour. Scott paid \$34 to rent a bike. For how many hours did he rent the bike?

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 $\{10\}$ 

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 $\{-5\}$ 

5)  $-7x = 28$

 $\{-4\}$ 

7)  $-5a + 6a = -1$

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17)  $-12 + 2x = 3(4x - 7) - 7x$

 $\{3\}$ 

19)  $-28 - 8v = 6 + 6(1 - 8v)$

 $\{1\}$ 

21) Willie wants to buy a comb that costs \$3. How much change does he receive if he gives the cashier \$5?

 $\{2\}$ 

23) Trevon had some candy to give to his three children. He first took six pieces for himself and then evenly divided the rest among his children. Each child received two pieces. With how many pieces did he start?

 $\{12\}$ 

2)  $r + 1 = -7$

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4)  $-6v = -48$

 $\{8\}$ 

6)  $\frac{x}{6} = 8$

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8)  $-5 + k + 5 = -3$

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10)  $11 = 1 + 6x - 4x$

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12)  $0 = -5m - 4m$

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