

**#9 I don't want to be a Janitor! Translating Words into Expressions Packet 2 Version 1****Multiple Choice**

Identify the choice that best completes the statement or answers the question.

**Identify the expression as a numerical expression or a variable expression. For a variable expression, name the variable.**

- \_\_\_\_\_ 1.  $1 \cdot 12$   
a. numerical expression  
b. variable expression;  $a$  is the variable.  
c. variable expression; there is no variable.  
d. variable expression;  $l$  is the variable.
- \_\_\_\_\_ 2.  $f \div 7$   
a. variable expression; there is no variable.  
b. numerical expression  
c. variable expression;  $g$  is the variable.  
d. variable expression;  $f$  is the variable.
- \_\_\_\_\_ 3.  $b \cdot 11$   
a. variable expression;  $b$  is the variable.  
b. numerical expression  
c. variable expression;  $k$  is the variable.  
d. variable expression; there is no variable.
- \_\_\_\_\_ 4.  $8 \cdot 12$   
a. numerical expression  
b. variable expression;  $h$  is the variable.  
c. variable expression;  $l$  is the variable.  
d. variable expression; there is no variable.
- \_\_\_\_\_ 5.  $a + 3$   
a. numerical expression  
b. variable expression;  $a$  is the variable.  
c. variable expression; there is no variable.  
d. variable expression;  $c$  is the variable.
- \_\_\_\_\_ 6.  $i + 12$   
a. variable expression;  $l$  is the variable.  
b. variable expression;  $i$  is the variable.  
c. numerical expression  
d. variable expression; there is no variable.
- \_\_\_\_\_ 7.  $6 \div 1$   
a. variable expression; there is no variable.  
b. variable expression;  $f$  is the variable.  
c. variable expression;  $a$  is the variable.  
d. numerical expression

- \_\_\_\_\_ 8.  $4 \cdot 10$
- variable expression;  $j$  is the variable.
  - variable expression; there is no variable.
  - variable expression;  $d$  is the variable.
  - numerical expression
- \_\_\_\_\_ 9.  $1 + 2$
- variable expression;  $a$  is the variable.
  - numerical expression
  - variable expression;  $b$  is the variable.
  - variable expression; there is no variable.
- \_\_\_\_\_ 10.  $i + 10$
- variable expression;  $i$  is the variable.
  - numerical expression
  - variable expression; there is no variable.
  - variable expression;  $j$  is the variable.
- \_\_\_\_\_ 11. Write a variable expression for 9 more than a number  $s$ .
- $9 - s$
  - $s + 9$
  - $s + 10$
  - $9 \div s$
- \_\_\_\_\_ 12. Write a word phrase that can be represented by  $b - 6$ .
- the difference of 6 and  $b$
  - the quotient of a number  $b$  and 6
  - 6 more than a number  $b$
  - 6 less than a number  $b$
- \_\_\_\_\_ 13. Write a variable expression for a number  $v$  divided by 8.
- $v \div 9$
  - $8 \div v$
  - $8 - v$
  - $v \div 8$
- \_\_\_\_\_ 14. Write a variable expression for the quotient of a number  $r$  and 9.
- $r \div 10$
  - $9 \div r$
  - $r \div 9$
  - $9 - r$
- \_\_\_\_\_ 15. Write a variable expression for a number  $x$  decreased by 6.
- $x - 6$
  - $x - 7$
  - $6 - x$
  - $6 \div x$
- \_\_\_\_\_ 16. Write a variable expression for the difference between a number  $w$  and 1.
- $w - 1$
  - $1 \div w$
  - $1 - w$
  - $w - 2$
- \_\_\_\_\_ 17. Write a variable expression for 4 fewer than a number  $w$ .
- $w - 5$
  - $4 \div w$
  - $w - 4$
  - $4 - w$
- \_\_\_\_\_ 18. Write a variable expression for the sum of a number  $y$  and 1.
- $y + 2$
  - $1 - y$
  - $1 \div y$
  - $y + 1$

**#10 I don't want to be a Janitor! Words to Variable Expressions Packet 2 Version 1****Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- \_\_\_\_\_ 1. Your job pays \$8 per hour. Write a variable expression for your pay in dollars for working  $h$  hours. What is your pay if you work 36 hours?  
a.  $9h$ ; \$288      b.  $8h$ ; \$288      c.  $8h$ ; \$292      d. 8; \$282
- \_\_\_\_\_ 2. Several people form groups with four people in each group. Write an expression for the number of groups formed by  $p$  people. How many groups are formed if there are 28 people?  
a.  $7p$ ; 4      b.  $\frac{28}{p}$ ; 7      c.  $4p$ ; 28      d.  $\frac{p}{4}$ ; 7
- \_\_\_\_\_ 3. To print tickets, a printer charges a \$70 setup fee plus \$1.25 per ticket. Write an algebraic expression for the cost of  $t$  tickets. What is the cost of 650 tickets?  
a.  $1.25t + 70$ ; \$882.50      c.  $1.25t - 70$ ; \$742.50  
b.  $1.25t + 70$ ; \$812.50      d.  $1.25t - 70$ ; \$882.50
- \_\_\_\_\_ 4. Your job pays \$6 per hour. Write a variable expression for your pay in dollars for working  $h$  hours. What is your pay if you work 32 hours?  
a.  $7h$ ; \$192      b. 6; \$184      c.  $6h$ ; \$201      d.  $6h$ ; \$192
- \_\_\_\_\_ 5. Several people form groups with eight people in each group. Write an expression for the number of groups formed by  $p$  people. How many groups are formed if there are 88 people?  
a.  $\frac{p}{8}$ ; 11      b.  $\frac{88}{p}$ ; 11      c.  $11p$ ; 8      d.  $8p$ ; 88
- \_\_\_\_\_ 6. To print tickets, a printer charges a \$75 setup fee plus \$1.50 per ticket. Write an algebraic expression for the cost of  $t$  tickets. What is the cost of 450 tickets?  
a.  $1.50t - 75$ ; \$750.00      c.  $1.50t + 75$ ; \$675.00  
b.  $1.50t - 75$ ; \$600.00      d.  $1.50t + 75$ ; \$750.00
- \_\_\_\_\_ 7. Your job pays \$7 per hour. Write a variable expression for your pay in dollars for working  $h$  hours. What is your pay if you work 39 hours?  
a.  $7h$ ; \$273      b.  $8h$ ; \$273      c.  $7h$ ; \$282      d. 7; \$268
- \_\_\_\_\_ 8. Several people form groups with three people in each group. Write an expression for the number of groups formed by  $p$  people. How many groups are formed if there are 30 people?  
a.  $3p$ ; 30      b.  $\frac{30}{p}$ ; 10      c.  $10p$ ; 3      d.  $\frac{p}{3}$ ; 10
- \_\_\_\_\_ 9. To print tickets, a printer charges a \$60 setup fee plus \$0.75 per ticket. Write an algebraic expression for the cost of  $t$  tickets. What is the cost of 300 tickets?  
a.  $0.75t + 60$ ; \$225.00      c.  $0.75t - 60$ ; \$285.00  
b.  $0.75t - 60$ ; \$165.00      d.  $0.75t + 60$ ; \$285.00
- \_\_\_\_\_ 10. Your job pays \$5 per hour. Write a variable expression for your pay in dollars for working  $h$  hours. What is your pay if you work 38 hours?  
a.  $6h$ ; \$190      b.  $5h$ ; \$190      c.  $5h$ ; \$197      d. 5; \$183

Name: \_\_\_\_\_

ID: A

- \_\_\_\_\_ 11. Several people form groups with six people in each group. Write an expression for the number of groups formed by  $p$  people. How many groups are formed if there are 48 people?
- a.  $8p; 6$                       b.  $\frac{48}{p}; 8$                       c.  $\frac{p}{6}; 8$                       d.  $6p; 48$
- \_\_\_\_\_ 12. To print tickets, a printer charges a \$55 setup fee plus \$1.00 per ticket. Write an algebraic expression for the cost of  $t$  tickets. What is the cost of 600 tickets?
- a.  $1.00t + 55; \$655.00$                       c.  $1.00t + 55; \$600.00$   
b.  $1.00t - 55; \$545.00$                       d.  $1.00t - 55; \$655.00$
- \_\_\_\_\_ 13. Your job pays \$5 per hour. Write a variable expression for your pay in dollars for working  $h$  hours. What is your pay if you work 34 hours?
- a.  $5h; \$178$                       b.  $5; \$164$                       c.  $5h; \$170$                       d.  $6h; \$170$
- \_\_\_\_\_ 14. Several people form groups with four people in each group. Write an expression for the number of groups formed by  $p$  people. How many groups are formed if there are 32 people?
- a.  $\frac{32}{p}; 8$                       b.  $\frac{p}{4}; 8$                       c.  $8p; 4$                       d.  $4p; 32$
- \_\_\_\_\_ 15. To print tickets, a printer charges a \$45 setup fee plus \$1.75 per ticket. Write an algebraic expression for the cost of  $t$  tickets. What is the cost of 250 tickets?
- a.  $1.75t - 45; \$482.50$                       c.  $1.75t - 45; \$392.50$   
b.  $1.75t + 45; \$437.50$                       d.  $1.75t + 45; \$482.50$

**#11 I don't want to be a Janitor! Distribution Packet 2 Version 1****Multiple Choice**

Identify the choice that best completes the statement or answers the question.

**Use the Distributive Property to multiply.**

- \_\_\_\_\_ 1.  $5(b + 8)$   
a.  $5b + 40$       b.  $5b + 8$       c.  $5b + 13$       d.  $8b + 40$
- \_\_\_\_\_ 2.  $9(4m + 1)$   
a.  $36m + 1$       b.  $36m + 9$       c.  $13m + 9$       d.  $45m$
- \_\_\_\_\_ 3.  $5(2t - 5)$   
a.  $10t - 5$       b.  $7t - 25$       c.  $10t - 25$       d.  $-15t$
- \_\_\_\_\_ 4.  $8(a + 3)$   
a.  $3a + 24$       b.  $8a + 24$       c.  $8a + 3$       d.  $8a + 11$
- \_\_\_\_\_ 5.  $7(3x + 6)$   
a.  $21x + 6$       b.  $21x + 42$       c.  $63x$       d.  $10x + 42$
- \_\_\_\_\_ 6.  $5(2m - 3)$   
a.  $10m - 3$       b.  $7m - 15$       c.  $10m - 15$       d.  $-5m$
- \_\_\_\_\_ 7.  $5(b + 6)$   
a.  $5b + 6$       b.  $5b + 11$       c.  $5b + 30$       d.  $6b + 30$
- \_\_\_\_\_ 8.  $7(3q + 3)$   
a.  $21q + 21$       b.  $42q$       c.  $21q + 3$       d.  $10q + 21$
- \_\_\_\_\_ 9.  $6(-2p + 8)$   
a.  $-12p + 8$       b.  $36p$       c.  $4p + 48$       d.  $-12p + 48$
- \_\_\_\_\_ 10.  $5(2n + 3)$   
a.  $10n + 15$       b.  $7n + 15$       c.  $10n + 3$       d.  $25n$
- \_\_\_\_\_ 11.  $7(3t + 2)$   
a.  $35t$       b.  $21t + 2$       c.  $10t + 14$       d.  $21t + 14$
- \_\_\_\_\_ 12.  $-3(x - 2)$   
a.  $3x$       b.  $-3x + 6$       c.  $-3x - 2$       d.  $-2x + 6$
- \_\_\_\_\_ 13.  $2(4x + 1)$   
a.  $6x + 2$       b.  $10x$       c.  $8x + 1$       d.  $8x + 2$
- \_\_\_\_\_ 14.  $3(4y - 6)$   
a.  $-6y$       b.  $12y - 6$       c.  $12y - 18$       d.  $7y - 18$
- \_\_\_\_\_ 15.  $-3(-t + 6)$   
a.  $-4t - 18$       b.  $-15t$       c.  $3t + 6$       d.  $3t - 18$

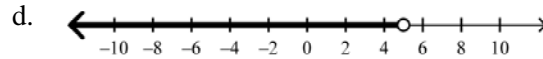
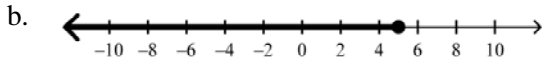
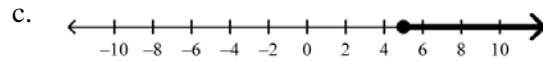
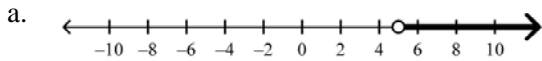
## #12 I don't want to be a Janitor! Inequalities on a Number Line Packet 2 Version 1

### Multiple Choice

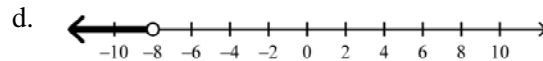
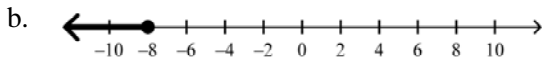
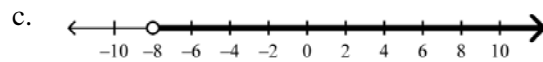
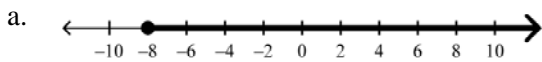
Identify the choice that best completes the statement or answers the question.

Graph the solutions of the inequality on a number line.

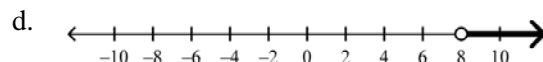
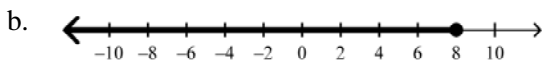
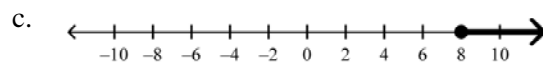
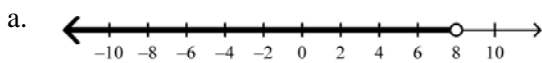
\_\_\_\_\_ 1.  $c < 5$



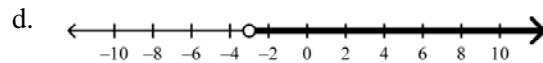
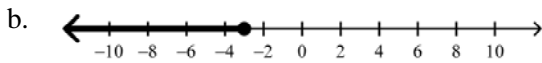
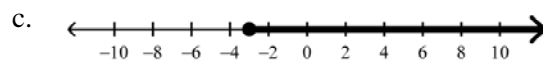
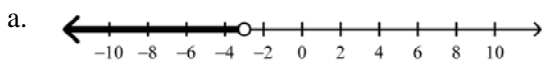
\_\_\_\_\_ 2.  $-8 > q$



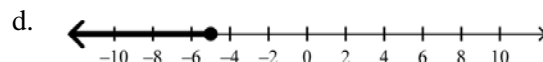
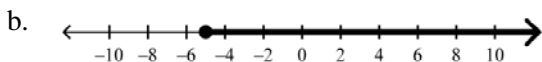
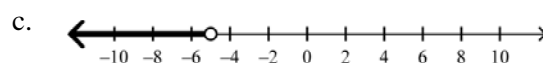
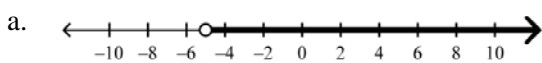
\_\_\_\_\_ 3.  $p \leq 8$



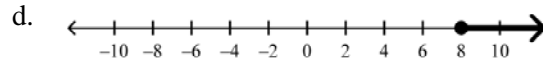
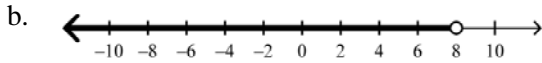
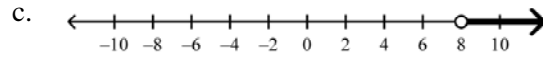
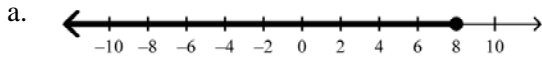
\_\_\_\_\_ 4.  $-3 > n$



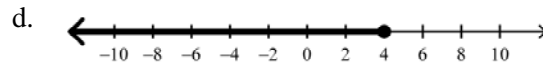
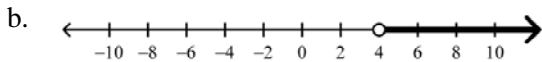
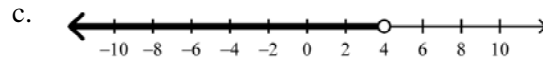
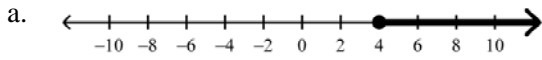
\_\_\_\_\_ 5.  $a > -5$



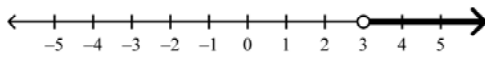
\_\_\_\_\_ 6.  $8 \leq t$



\_\_\_\_\_ 7.  $a \geq 4$



\_\_\_\_\_ 8. Write an inequality for the graph.



a.  $x < 3$

b.  $x \leq 3$

c.  $x \geq 3$

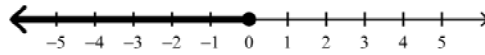
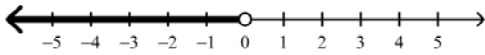
d.  $x > 3$

\_\_\_\_\_ 9. Write an inequality for the sentence. Graph the solution on a number line.

$c$  is not less than zero.

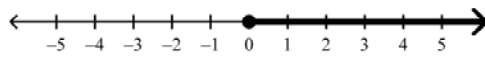
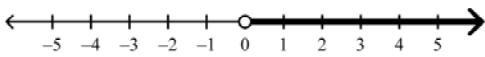
a.  $c < 0$

c.  $c \leq 0$



b.  $c > 0$

d.  $c \geq 0$

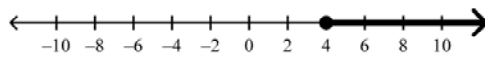
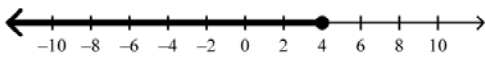


**Solve the inequality. Graph the solutions.**

\_\_\_\_\_ 10.  $a + 4 \geq 8$

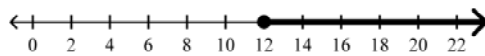
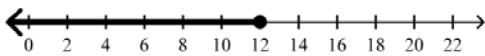
a.  $a \leq 4$

c.  $a \geq 4$



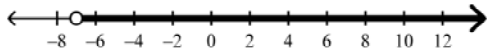
b.  $a \leq 12$

d.  $a \geq 12$

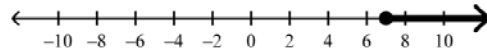


\_\_\_ 11.  $q - 7 > 0$

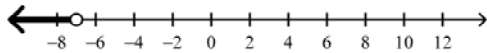
a.  $q > -7$



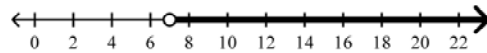
c.  $q < 7$



b.  $q < -7$

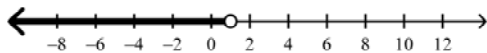


d.  $q > 7$

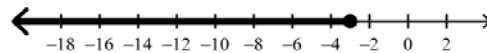


\_\_\_ 12.  $h - 2 < -1$

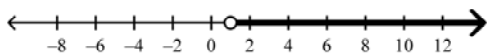
a.  $h < 1$



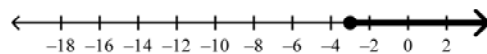
c.  $h < -3$



b.  $h > 1$

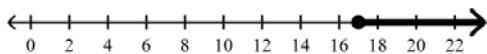


d.  $h > -3$

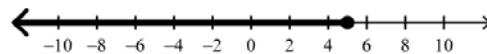


\_\_\_ 13.  $m + 6 \geq 11$

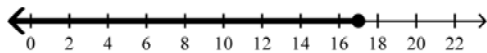
a.  $m \geq 17$



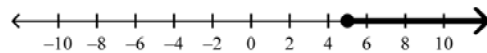
c.  $m \leq 5$



b.  $m \leq 17$

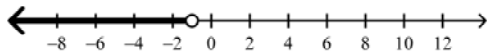


d.  $m \geq 5$

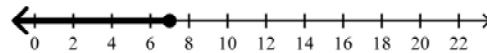


\_\_\_ 14.  $y - 4 \leq 3$

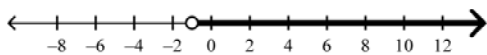
a.  $y \leq -1$



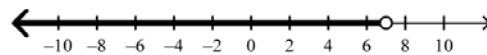
c.  $y \leq 7$



b.  $y \geq -1$

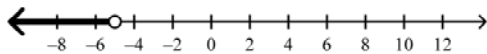


d.  $y \geq 7$

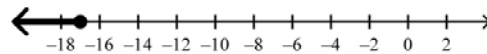


\_\_\_ 15.  $y - 6 < -11$

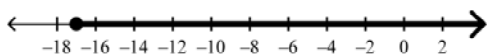
a.  $y < -5$



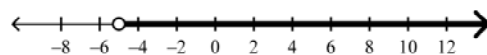
c.  $y < -17$



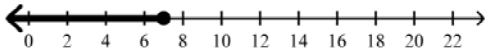
b.  $y > -17$



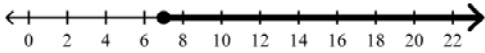
d.  $y > -5$



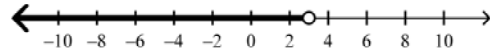
\_\_\_ 16.  $g + 2 < 5$   
 a.  $g < 7$



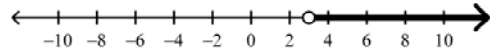
b.  $g > 7$



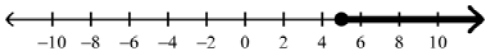
c.  $g < 3$



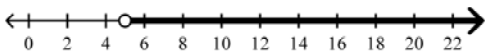
d.  $g > 3$



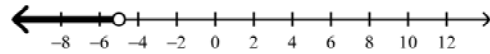
\_\_\_ 17.  $b - 5 > 0$   
 a.  $b < 5$



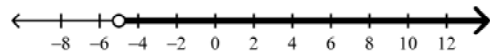
b.  $b > 5$



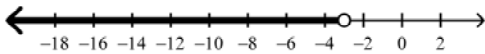
c.  $b < -5$



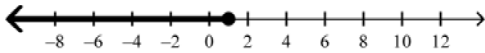
d.  $b > -5$



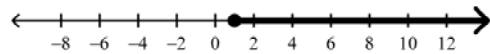
\_\_\_ 18.  $y - 2 \leq -1$   
 a.  $y \leq -3$



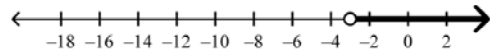
b.  $y \leq 1$



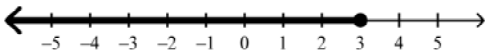
c.  $y \geq 1$



d.  $y \geq -3$



\_\_\_ 19. Write an inequality for the graph.



a.  $x \leq 3$

b.  $x \geq 3$

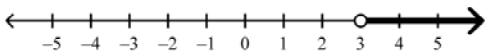
c.  $x < 3$

d.  $x > 3$

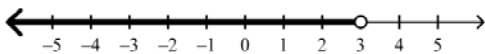
\_\_\_ 20. Write an inequality for the sentence. Graph the solution on a number line.

$m$  is not less than three.

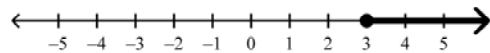
a.  $m > 3$



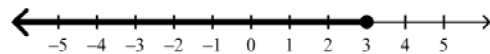
b.  $m < 3$



c.  $m \geq 3$



d.  $m \leq 3$



## #13 I don't want to be a Janitor! Simplifying Variable Expressions 6 Packet 2 Version 1

**Multiple Choice***Identify the choice that best completes the statement or answers the question.***Simplify the expression.**

- \_\_\_\_\_ 1.  $6(6) + 6(4)$   
a. 60                      b. 10                      c. 16                      d. 12
- \_\_\_\_\_ 2.  $(10)9 - (10)11$   
a. -2                      b. -20                      c. 200                      d. 8
- \_\_\_\_\_ 3.  $3x + 3x$   
a.  $6x$                       b.  $9x$                       c.  $6x^2$                       d. 6
- \_\_\_\_\_ 4.  $7d + 12 - 4d - 3$   
a.  $19d - 7$                       b.  $3d + 9$                       c.  $3d^2 + 9$                       d.  $12d$
- \_\_\_\_\_ 5.  $2c + 2 + 5c$   
a.  $9c$                       b.  $9c^2$                       c.  $7c + 2$                       d.  $4c + 5$
- \_\_\_\_\_ 6.  $9 - 5(-7x + 5)$   
a.  $35x + 34$                       b.  $-28x + 20$                       c.  $35x + 14$                       d.  $35x - 16$
- \_\_\_\_\_ 7.  $11(8) - 11(13)$   
a. -55                      b. 6                      c. -5                      d. 231
- \_\_\_\_\_ 8.  $(5)11 - (5)9$   
a. 2                      b. 7                      c. 100                      d. 10
- \_\_\_\_\_ 9.  $3n + 5n$   
a. 8                      b.  $8n^2$                       c.  $15n$                       d.  $8n$
- \_\_\_\_\_ 10.  $8j + 10 - 4j + 7$   
a.  $4j + 17$                       b.  $21j$                       c.  $4j^2 + 17$                       d.  $18j + 3$
- \_\_\_\_\_ 11.  $5h + 2 + 9h$   
a.  $7h + 9$                       b.  $16h^2$                       c.  $16h$                       d.  $14h + 2$
- \_\_\_\_\_ 12.  $6 - 5(-3x + 7)$   
a.  $15x + 13$                       b.  $15x - 29$                       c.  $-3x + 7$                       d.  $15x + 41$
- \_\_\_\_\_ 13.  $5v + 4 + 6v$   
a.  $11v + 4$                       b.  $15v^2$                       c.  $9v + 6$                       d.  $15v$
- \_\_\_\_\_ 14.  $4d - 10 - 5d - 5$   
a.  $-d - 15$                       b.  $-6d - 10$                       c.  $-16d$                       d.  $-d^2 - 15$

Name: \_\_\_\_\_

ID: A

- \_\_\_\_\_ 15.  $7 - 5(-12x + 2)$   
a.  $60x - 3$       b.  $60x + 9$       c.  $-24x + 4$       d.  $60x + 17$
- \_\_\_\_\_ 16.  $9k - 2 + 5k$   
a.  $7k + 5$       b.  $14k - 2$       c.  $12k$       d.  $12k^2$
- \_\_\_\_\_ 17.  $3g + 4g$   
a.  $7g$       b.  $7$       c.  $7g^2$       d.  $12g$
- \_\_\_\_\_ 18.  $7x + 10 + 6x + 4$   
a.  $13x + 14$       b.  $13x^2 + 14$       c.  $27x$       d.  $17x + 10$
- \_\_\_\_\_ 19.  $9 - 2(-6x + 4)$   
a.  $12x +$       b.  $12x + 17$       c.  $-42x + 28$       d.  $12x + 13$
- \_\_\_\_\_ 20.  $12v - 1 + 8v$   
a.  $19v$       b.  $20v - 1$       c.  $11v + 8$       d.  $19v^2$

## #14 I don't want to be a Janitor! Solving One-Step Equations Packet 2 Version 1

**Multiple Choice***Identify the choice that best completes the statement or answers the question.***Solve the equation.**

- \_\_\_\_\_ 1.  $a + 3 = 10$   
a. 7                      b. 13                      c. -7                      d. 30
- \_\_\_\_\_ 2.  $a - 4 = 12$   
a. -8                      b. 16                      c. 8                      d. 48
- \_\_\_\_\_ 3.  $y - 5 = -8$   
a. 13                      b. -3                      c. -40                      d. -13
- \_\_\_\_\_ 4.  $y + (-6) = -9$   
a. -15                      b. -3                      c. 54                      d. 3
- \_\_\_\_\_ 5.  $n - 40 - 26 = -35$   
a. -31                      b. -101                      c. -21                      d. 31
- \_\_\_\_\_ 6.  $9b = 27$   
a. 3                      b. 18                      c. 243                      d. 36
- \_\_\_\_\_ 7.  $8,000g = 48,000$   
a. 40,000                      b. 60                      c. 6                      d. 600
- \_\_\_\_\_ 8.  $-7b = 21$   
a. 14                      b. -3                      c. 28                      d. -147
- \_\_\_\_\_ 9.  $\frac{w}{9} = 6$   
a. -3                      b.  $\frac{2}{3}$                       c. 54                      d.  $\frac{3}{2}$
- \_\_\_\_\_ 10.  $-5 = \frac{c}{7}$   
a.  $-\frac{7}{5}$                       b. -12                      c.  $-\frac{5}{7}$                       d. -35
- \_\_\_\_\_ 11.  $9 = m + 8$   
a. -1                      b. 1                      c. 72                      d. 17
- \_\_\_\_\_ 12.  $n - 6 = 11$   
a. -5                      b. 17                      c. 66                      d. 5
- \_\_\_\_\_ 13.  $q - 4 = -8$   
a. -32                      b. -4                      c. -12                      d. 12

Name: \_\_\_\_\_

ID: A

- \_\_\_\_\_ 14.  $x + (-6) = -12$   
a. -18                      b. -6                      c. 72                      d. 6
- \_\_\_\_\_ 15.  $m - 30 - 36 = -50$   
a. 16                      b. -56                      c. -16                      d. -116
- \_\_\_\_\_ 16.  $4t = 24$   
a. 96                      b. 28                      c. 20                      d. 6
- \_\_\_\_\_ 17.  $8,000d = 24,000$   
a. 300                      b. 30                      c. 3                      d. 16,000
- \_\_\_\_\_ 18.  $-9p = 18$   
a. -2                      b. -162                      c. 27                      d. 9
- \_\_\_\_\_ 19.  $\frac{b}{7} = 8$   
a. 56                      b.  $\frac{7}{8}$                       c. 1                      d.  $\frac{8}{7}$
- \_\_\_\_\_ 20.  $4 = \frac{h}{-4}$   
a. -16                      b. -1                      c. -1                      d. 8
- \_\_\_\_\_ 21.  $y + (-7) = -14$   
a. 98                      b. -7                      c. -21                      d. 7
- \_\_\_\_\_ 22.  $p - 17 - 37 = -47$   
a. -7                      b. -101                      c. 7                      d. -67

**#15 I don't want to be a Janitor! Solving One-Step Equation Word Problems Packet 2 Version 1****Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- \_\_\_\_\_ 1. Suppose you have 30 CDs. You know that you have 11 more CDs than your friend. Write and solve an equation to find the number of CDs your friend has.  
a.  $n - 11 = 30$ ; 41  
b.  $30 + n = 11$ ; -19  
c.  $30 + 11 = n$ ; 41  
d.  $n + 11 = 30$ ; 19
- \_\_\_\_\_ 2. Tom saves \$5 each month. At this rate, how many months will he need to save \$20?  
a. 4 months  
b. 15 months  
c. 3 months  
d. 5 months
- \_\_\_\_\_ 3. Suppose you have 35 CDs. You know that you have 13 more CDs than your friend. Write and solve an equation to find the number of CDs your friend has.  
a.  $35 + 13 = n$ ; 48  
b.  $35 + n = 13$ ; -22  
c.  $n - 13 = 35$ ; 48  
d.  $n + 13 = 35$ ; 22
- \_\_\_\_\_ 4. Tom saves \$35 each month. At this rate, how many months will he need to save \$140?  
a. 3 months  
b. 4 months  
c. 105 months  
d. 5 months
- \_\_\_\_\_ 5. Suppose you have 20 CDs. You know that you have 8 more CDs than your friend. Write and solve an equation to find the number of CDs your friend has.  
a.  $20 + n = 8$ ; -12  
b.  $n - 8 = 20$ ; 28  
c.  $20 + 8 = n$ ; 28  
d.  $n + 8 = 20$ ; 12
- \_\_\_\_\_ 6. Tom saves \$5 each month. At this rate, how many months will he need to save \$40?  
a. 9 months  
b. 35 months  
c. 7 months  
d. 8 months
- \_\_\_\_\_ 7. Suppose you have 31 CDs. You know that you have 14 more CDs than your friend. Write and solve an equation to find the number of CDs your friend has.  
a.  $n - 14 = 31$ ; 45  
b.  $31 + 14 = n$ ; 45  
c.  $n + 14 = 31$ ; 17  
d.  $31 + n = 14$ ; -17
- \_\_\_\_\_ 8. Tom saves \$35 each month. At this rate, how many months will he need to save \$280?  
a. 245 months  
b. 7 months  
c. 8 months  
d. 9 months
- \_\_\_\_\_ 9. Suppose you have 32 CDs. You know that you have 4 more CDs than your friend. Write and solve an equation to find the number of CDs your friend has.  
a.  $n + 4 = 32$ ; 28  
b.  $n - 4 = 32$ ; 36  
c.  $32 + 4 = n$ ; 36  
d.  $32 + n = 4$ ; -28
- \_\_\_\_\_ 10. Tom saves \$15 each month. At this rate, how many months will he need to save \$60?  
a. 5 months  
b. 4 months  
c. 3 months  
d. 45 months

## #16 I don't want to be a Janitor! Solving Inequalities Packet 2 Version 1

**Multiple Choice***Identify the choice that best completes the statement or answers the question.***Solve the inequality.**

- \_\_\_\_\_ 1.  $5n > -25$   
a.  $n > -20$       b.  $n > -5$       c.  $n > 30$       d.  $n < -5$
- \_\_\_\_\_ 2.  $42 < -6d$   
a.  $d < -7$       b.  $d < 36$       c.  $d > -7$       d.  $d < -48$
- \_\_\_\_\_ 3.  $\frac{r}{6} \leq 3$   
a.  $r \geq 18$       b.  $r \leq 18$       c.  $r \leq \frac{1}{2}$       d.  $r \leq 9$
- \_\_\_\_\_ 4.  $\frac{y}{-6} > 10$   
a.  $y < -16$       b.  $y > -60$       c.  $y > 4$       d.  $y < -60$
- \_\_\_\_\_ 5.  $\frac{1}{4}c < 8$   
a.  $c < -4$       b.  $c < 32$       c.  $c > 32$       d.  $c > 12$
- \_\_\_\_\_ 6.  $5g < 25$   
a.  $g < 5$       b.  $g > 5$       c.  $g < -20$       d.  $g < 30$
- \_\_\_\_\_ 7.  $70 > -10h$   
a.  $h > -80$       b.  $h < -7$       c.  $h > 60$       d.  $h > -7$
- \_\_\_\_\_ 8.  $\frac{t}{6} \leq -4$   
a.  $t \leq -\frac{2}{3}$       b.  $t \leq -24$       c.  $t \geq -24$       d.  $t \leq 2$
- \_\_\_\_\_ 9.  $\frac{x}{4} < -3$   
a.  $x < 1$       b.  $x < -12$       c.  $x < 7$       d.  $x > -12$
- \_\_\_\_\_ 10.  $\frac{1}{2}w > 12$   
a.  $w > -10$       b.  $w > 24$       c.  $w < 24$       d.  $w < 14$
- \_\_\_\_\_ 11.  $8t > 24$   
a.  $t < 3$       b.  $t > 32$       c.  $t > 3$       d.  $t > -16$

- \_\_\_\_\_ 12.  $15 < -3d$   
a.  $d < -5$                       b.  $d > -5$                       c.  $d < -18$                       d.  $d < 12$
- \_\_\_\_\_ 13.  $\frac{p}{7} \leq 11$   
a.  $p \leq 18$                       b.  $p \leq 77$                       c.  $p \leq \frac{11}{7}$                       d.  $p \geq 77$
- \_\_\_\_\_ 14.  $\frac{b}{-9} > 4$   
a.  $b > -5$                       b.  $b < -36$                       c.  $b < -13$                       d.  $b > -36$
- \_\_\_\_\_ 15. Jose has 9 more comic books than Robin. Robin has 5 more comic books than Lee.  
**a.** If Jose has 23 comic books, how many comic books does Robin have?  
**b.** How many comic books does Lee have?  
  
a. 14 comic books; 9 comic books  
b. 14 comic books; 18 comic books  
c. 32 comic books; 37 comic books  
d. 9 comic books; 5 comic books
- \_\_\_\_\_ 16. Jose has 7 more comic books than Robin. Robin has 5 more comic books than Lee.  
**a.** If Jose has 23 comic books, how many comic books does Robin have?  
**b.** How many comic books does Lee have?  
  
a. 30 comic books; 35 comic books  
b. 16 comic books; 11 comic books  
c. 16 comic books; 18 comic books  
d. 7 comic books; 5 comic books
- \_\_\_\_\_ 17. Jose has 4 more comic books than Robin. Robin has 3 more comic books than Lee.  
**a.** If Jose has 12 comic books, how many comic books does Robin have?  
**b.** How many comic books does Lee have?  
  
a. 16 comic books; 19 comic books  
b. 8 comic books; 5 comic books  
c. 8 comic books; 9 comic books  
d. 4 comic books; 3 comic books
- \_\_\_\_\_ 18. Jose has 9 more comic books than Robin. Robin has 4 more comic books than Lee.  
**a.** If Jose has 23 comic books, how many comic books does Robin have?  
**b.** How many comic books does Lee have?  
  
a. 32 comic books; 36 comic books  
b. 14 comic books; 19 comic books  
c. 14 comic books; 10 comic books  
d. 9 comic books; 4 comic books