

**CHAPTER**  
**1****Cumulative Test****Choose the best answer.**

- Evaluate  $\frac{6(18 - 4)}{4}$ .  
A 21                      C 26  
B 23                      D 102
- Evaluate the expression  $3(4a - 5) - b$  for  $a = 6$  and  $b = -3$ .  
F 54                      H 64  
G 60                      J 70
- Evaluate  $|3 - r|$  for  $r = 10$ .  
A -13                      C 7  
B -7                      D 13
- In which quadrant is the coordinate pair  $(-11, 1)$  located?  
F I                      H III  
G II                      J IV
- Solve the equation  $\frac{m}{-3} + 5 = 1$ .  
A -18                      C 2  
B -2                      D 12
- Solve the inequality  $-7 \leq 2x + 9$ .  
F  $x \leq -1$                       H  $x \geq -8$   
G  $x \leq 1$                       J  $x \geq 8$
- Evaluate  $d^3$  for  $d = -5$ .  
A -243                      C -75  
B -125                      D -15
- Simplify  $x^2 \cdot x^2$ .  
F  $x^3$                       H  $x^{12}$   
G  $x^5$                       J  $x^{27}$
- What is the solution to the equation  $4c - 3 = 85$ ?  
A -22                      C 22  
B 20.5                      D 85
- What is the solution to the equation  $-4 - 3y = y + 8$ ?  
F -3                      H 1  
G -2                      J 2
- The statement "6 less than twice a number is at least 15" is represented by  
A  $6 - 2n \leq 15$                       C  $6 - 2n \geq 15$   
B  $2n - 6 \leq 15$                       D  $2n - 6 \geq 15$
- What is the slope of the line that passes through  $(-8, 2)$  and  $(4, 5)$ ?  
F  $-\frac{7}{4}$                       H  $\frac{1}{4}$   
G  $-\frac{4}{7}$                       J 4
- Which inequality is shown by the graph?  
  
A  $y \geq -2x - 1$                       C  $y \geq -\frac{1}{2}x - 1$   
B  $y \leq -2x - 1$                       D  $y \geq 2x - 1$
- If  $f(x) = 3x - 5$ , what is  $f(-2)$ ?  
F  $-6x + 10$                       H  $3x - 7$   
G 1                      J -11
- Thirty-two is what percent of 80?  
A 4%                      C 40%  
B 25.6%                      D 256%
- Which equation can be solved to find 150% of 16?  
F  $x = 150 \cdot 16$                       H  $16x = 150$   
G  $x = 1.5 \cdot 16$                       J  $1.5x = 16$
- Last year Miranda was 60 inches tall. This year she is 63 inches tall. What is the percent increase in her height?  
A 5%                      C 60%  
B 6.3%                      D 95%

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**K. J. Miskelly**



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