

## Ch 4 REVIEW – Multiple Choice Portion

Date \_\_\_\_\_ Period \_\_\_\_\_

1. Solve:  $10 - n < -8$   
 a)  $n > -2$   
 b)  $n < -2$   
 c)  $n > -18$   
 d)  $n < -18$   
 e) *None of the above*
2. The graph of #1, answer  $d$  is:  
 a) open circle, to the right  
 b) open circle, to the left  
 c) closed circle, to the right  
 d) closed circle, to the left
3. Solve:  $-20 \geq y - 25$   
 a)  $y \geq 55$   
 b)  $y \leq 55$   
 c)  $y \geq -5$   
 d)  $y \leq -5$   
 e) *None of the above*
4. The graph of #3 answer  $d$  is:  
 a) open circle, to the right  
 b) open circle, to the left  
 c) closed circle, to the right  
 d) closed circle, to the left
5. Solve:  $\frac{n}{-3} \leq 12$   
 a)  $n \leq -36$   
 b)  $n \leq 9$   
 c)  $n \geq -15$   
 d)  $n \geq -36$   
 e) *None of the above*
6. The graph of #5 answer  $d$  is:  
 a) open circle, to the right  
 b) open circle, to the left  
 c) closed circle, to the right  
 d) closed circle, to the left
7. Solve:  $-30 > -5c$   
 a)  $c > 6$   
 b)  $c < 6$   
 c)  $c > -25$   
 d)  $c > 35$   
 e) *None of the above*
8. The graph of #7 answer  $d$  is:  
 a) open circle, to the right  
 b) open circle, to the left  
 c) closed circle, to the right  
 d) closed circle, to the left
9. Solve:  $-14 \geq 8b + 10$   
 a)  $b \geq -3$   
 b)  $b \leq -\frac{1}{2}$   
 c)  $b \leq -3$   
 d)  $b \geq 3$   
 e) *None of the above*
10. Solve:  $\frac{h}{-2} + 5 > -11$   
 a)  $h > -32$   
 b)  $h > -12$   
 c)  $h < -32$   
 d)  $h > -8$   
 e) *None of the above*
11. Solve:  $-7 - 3u > -11$   
 a)  $u < 6$   
 b)  $u < -6$   
 c)  $u < 1\frac{1}{3}$   
 d)  $u > 1\frac{1}{3}$   
 e) *None of the above*
12. Solve:  $15 < 9 - \frac{k}{5}$   
 a)  $k < -120$   
 b)  $k > -30$   
 c)  $k < -30$   
 d)  $k > -120$   
 e) *None of the above*
13. Solve:  $-12 \leq 2c + 8$   
 a)  $c \geq -10$   
 b)  $c \leq 10$   
 c)  $c \geq -2$   
 d)  $c \leq -10$   
 e) *None of the above*
14. Solve:  $10 + \frac{b}{2} < -16$   
 a)  $b < -42$   
 b)  $b < 12$   
 c)  $b < -12$   
 d)  $b < -32$   
 e) *None of the above*
15. Which of these inequalities would *not* require the inequality symbol to be flipped?  
 a)  $-3x < 42$   
 b)  $3x < -42$   
 c)  $-42 < 3x$   
 d)  $42 < -3x$   
 e) *None of the above*

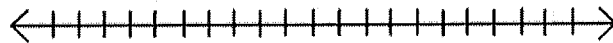
**Ch 4 REVIEW – Show Work Portion**

Solve each inequality showing ALL of your work as you were taught this year. Graph the answers on the given number lines.

1.  $-18 - k < -32$



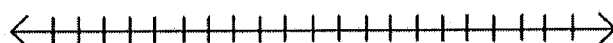
2.  $82 \geq 54 - h$



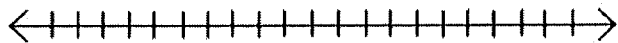
3.  $-6d > -96$



4.  $4 \leq \frac{b}{-18}$



5.  $-7x + 9 > -54$



6.  $19 \geq 37 - \frac{m}{5}$

