Name: _____ Date: _____ Period:_____
Algebra 1CP Unit 2 practice test – Fall 2016   Show your work and write your answer in the space provided

Solve the following inequalities and graph their solutions.

1) $-8 \geq x - 15$

2) $8x > 7x - 4$

3) $12 + x \leq 9$

4) $r - (-5) > -2$

5) $\frac{1}{2} \leq c - \frac{3}{4}$

6) $z + 3 > \frac{2}{3}$

Solve each inequality.

7) $-\frac{a}{5} < -14$

8) $-13h \leq 52$

9) $\frac{s}{16} \geq -6$
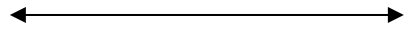
10) $39 > 13p$

Solve the following multi-step inequalities.

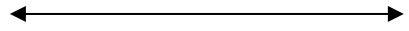11) $x > \frac{5x - 12}{8}$

12) $-5 - \frac{t}{6} \geq -9$

13) $4u - 6 \geq 6u - 20$
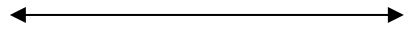
14) $13 > \frac{2}{3}a - 1$

1) _____

←——————————————→
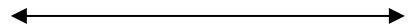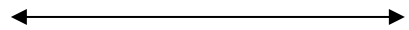
2) _____

←——————————————→

3) _____

←——————————————→

4) _____

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5) _____

←——————————————→

6) _____

←——————————————→
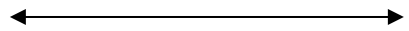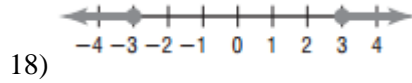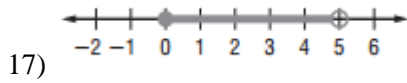
7) _____

8) _____

9) _____

10) _____

11) _____

12) _____

13) _____

14) _____

15) $-6(1 + 7k) + 7(1 + 6k) \le -2$　　16) $(9x + 6) - 7x \ge 2(x - 3)$

Write a compound inequality for each graph.

17)

18)

Solve each compound inequality, then graph the solution set.

19) $k - 3 < -7$ or $k + 5 \ge 8$　　　　20) $-n < 2$ or $2n - 3 > 5$

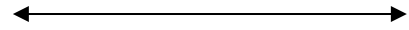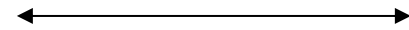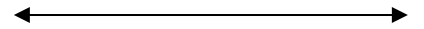21) $5 < 3h + 2 \le 11$　　　　　　　22) $2c - 4 > -6$ and $3c + 1 < 13$
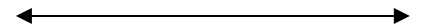
Extra credit
EC1) Pet Supplies makes a profit of $5.50 per bag on its line of natural dog food. If the store wants to make a profit of no less than $5225 on natural dog food, how many bags of dog food does it need to sell?

EC2) A cookie contains 9 grams of fat. If you eat no fewer than 4 and no more than 7 cookies, how many grams of fat will you consume?