

Review - Day 1 - Expressions, Equations, Inequalities Date _____ Period _____

Evaluate each using the values given.

1) $q - (q)(r - 1)$; use $q = -9$, and $r = 4$

2) $q - p - (m + p)$; use $m = -7$, $p = 6$, and $q = 8$

3) $\left(\frac{(q)(q+r)}{2}\right)\left(\frac{qp}{4}\right)$; use $p = -8$, $q = 2$, and $r = -7$

4) $z - (y - y + 8z) - (-9 + z)$; use $y = 1$, and $z = 6$

Solve each equation.

5) $126 = -2(-10n + 7)$

6) $110 = 5(3b + 1)$

7) $15p + 16 = 16 + 3p$

8) $24 + 17r = 9 + 18r$

9) $-10n + 27 = 17(-7 + 8n)$

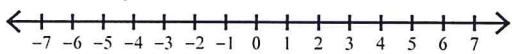
10) $-6(7n - 20) = 15n + 6$

11) $13(-10 + 20x) = -14(-19x - 4)$

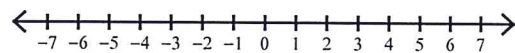
12) $x + 15 + 9 = -20(1 - 11x) + 11(-20x + 1)$

Draw a graph for each inequality.

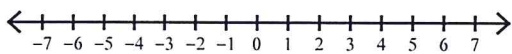
13) $-1 < x$



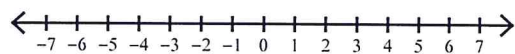
14) $k \leq 0$



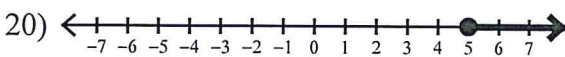
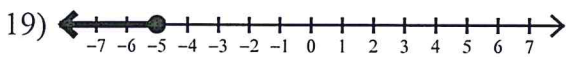
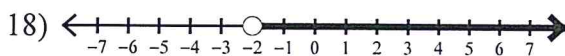
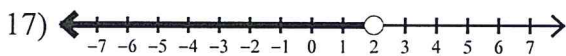
15) $p \geq -3$



16) $4 > x$

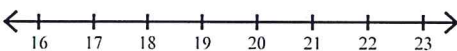


Write an inequality for each graph.

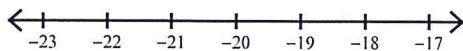


Solve each inequality and graph its solution.

21) $5 \geq \frac{p}{4}$



22) $m + 4 < -15$



Answers to Review - Day 1 - Expressions, Equations, Inequalities

1) 18

2) 3

3) 20

4) -39

5) {7}

6) {7}

7) {0}

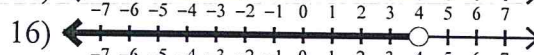
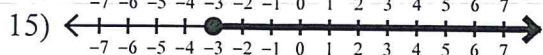
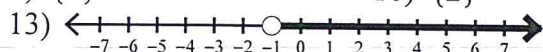
8) {15}

9) {1}

10) {2}

11) {-31}

12) {-33}



17) $x < 2$

18) $v > -2$

19) $n \leq -5$

20) $m \geq 5$

