

Name : _____

Solving Equations and Inequalities

Solve each equation. Show your work.

1 $-9 = \frac{-h}{12} + 5$

2 $\frac{-n}{3} - 10 = 0$

3 $418 = -22a$

4 $3b + 6 = 12$

5 $-f + 2 = 12$

6 $8a + 73 = 1$

Solve each inequality.

7 $5r < -25$

8 $-9c > -81$

9 $3y < 21$

10 $\frac{p}{3} > -6$

11 $7 < -(-k - 3) + 2$

12 $3g - 27 > -18$

13 Write an inequality to match the graph.



Name : _____

Solving Equations and Inequalities

Answer.

1 $-9 = \frac{-h}{12} + 5$

2 $\frac{-n}{3} - 10 = 0$

3 $418 = -22a$
 $h = 168$

4 $3b + 6 = 12$
 $n = -30$

5 $-f + 2 = 12$
 $a = -19$

6 $8a + 73 = 1$
 $b = 2$

$f = -10$

$a = -9$

Solve each inequality.

7 $5r < -25$

8 $-9c > -81$

9 $3y < 21$

10 $\frac{p}{3} > -6$
 $r < -5$

11 $7 < -(-k - 3) + 2$
 $c > 9$

12 $3g - 27 > -18$
 $y < 7$

$p > -18$

$k < 2$

$g > 3$

13 Write an inequality to match the graph.



$x < -5$