

Solving Equations and Inequalities A1a Review Date _____ Period _____

Solve each equation.

1) $\frac{x}{20} = -9$

2) $x - 20 = -18$

3) $\frac{m}{13} = -20$

4) $-47 = 7n + 2$

5) $-5 = -6 + \frac{n}{14}$

6) $\frac{x-7}{2} = 4$

7) $-14 + 7v - 8v = 1 - 4v$

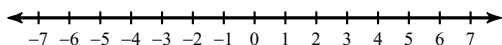
8) $15 + 3n = 6n - 3 - 6$

9) $5(1 - 2n) = 85$

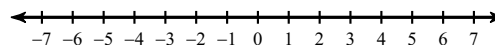
10) $-24 + 8x = 6(8x - 4)$

Draw a graph for each inequality.

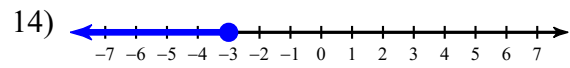
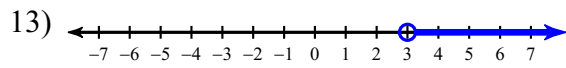
11) $x > 4$



12) $1 \geq x$



Write an inequality for each graph.



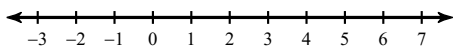
Write an Inequality to represent each phrase.

15) No more than 6 people can fit into my car.

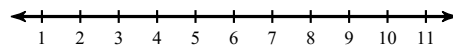
16) You must be at least 52" to ride the rollercoaster.

Solve each inequality and graph its solution.

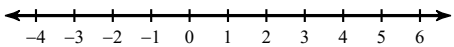
17) $7 - 6r > 1$



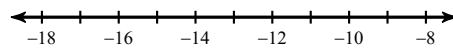
18) $2 \geq \frac{-4 + k}{2}$



19) $-10 \geq -8r - 2$



20) $-14 \geq \frac{m}{2} - 8$



Solve each equation for the indicated variable.

21) $z = am$, for a

22) $z = m + x$, for x

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Solve each equation.

1) $\frac{x}{20} = -9$

$\{-180\}$

2) $x - 20 = -18$

$\{2\}$

3) $\frac{m}{13} = -20$

$\{-260\}$

4) $-47 = 7n + 2$

$\{-7\}$

5) $-5 = -6 + \frac{n}{14}$

$\{14\}$

6) $\frac{x-7}{2} = 4$

$\{15\}$

7) $-14 + 7v - 8v = 1 - 4v$

$\{5\}$

8) $15 + 3n = 6n - 3 - 6$

$\{8\}$

9) $5(1 - 2n) = 85$

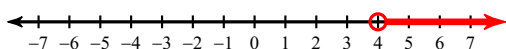
$\{-8\}$

10) $-24 + 8x = 6(8x - 4)$

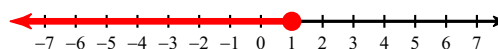
$\{0\}$

Draw a graph for each inequality.

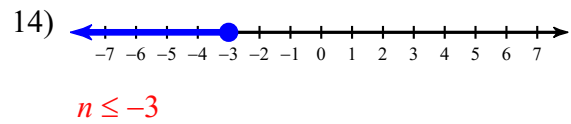
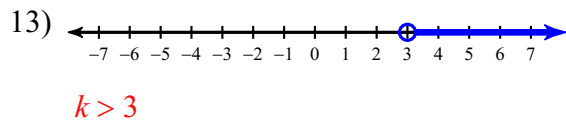
11) $x > 4$



12) $1 \geq x$



Write an inequality for each graph.

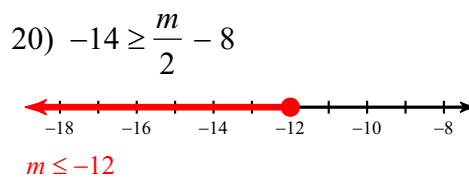
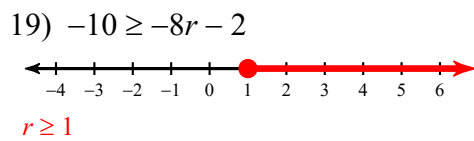
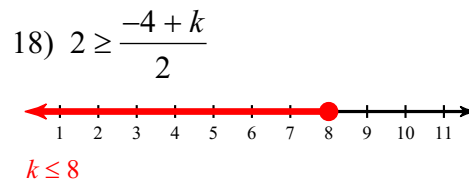
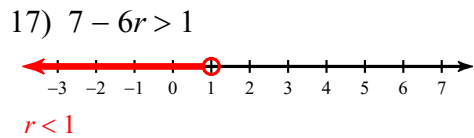


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16) You must be at least 52" to ride the rollercoaster.

Solve each inequality and graph its solution.



Solve each equation for the indicated variable.

21) $z = am$, for a

$$a = \frac{z}{m}$$

22) $z = m + x$, for x

$$x = z - m$$