

Solve each equation for the indicated variable.

30)  $z = mx + y$ , for  $x = \frac{z-y}{m}$

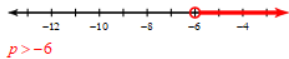
31)  $ac = d + r$ , for  $a = \frac{d+r}{c}$

32)  $z = y + \frac{m}{x}$ , for  $x = \frac{m}{z-y}$

33)  $ac = r - d$ , for  $a = \frac{r-d}{c}$

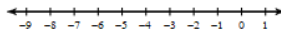
Solve each inequality and graph its solution.

34)  $-6(p+1) - 2(3-8p) > -72$



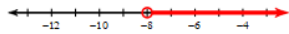
$p > -6$

35)  $-2(1+n) + 2(n-8) \geq 7$



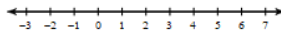
No solution.

36)  $-6(n+4) + 3(3+3n) > -39$



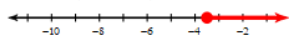
$n > -8$

37)  $-4(8a-2) + 8(8+4a) < 7$



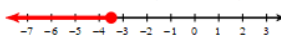
No solution.

38)  $-\frac{10}{3}\left(\frac{15}{4}p - \frac{8}{3}\right) \leq \frac{1895}{36}$



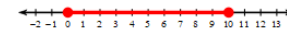
$p \geq -\frac{7}{2}$

39)  $-\frac{1243}{24} \geq -\frac{11}{3}\left(-\frac{15}{4}p + 1\right)$



$p \leq -\frac{7}{2}$

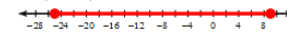
40)  $57 \geq 7 + 5x \geq 7$



$0 \leq x \leq 10$

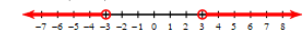
Solve each inequality and graph its solution.

41)  $|n+8| + 6 \leq 23$



$-25 \leq n \leq 9$

42)  $-4|-5n| < -60$



$n < -3 \text{ or } n > 3$

39) 
$$-\frac{1243}{24} \geq -\frac{11}{3}\left(-\frac{15}{4}p + 1\right)$$

$$-\frac{1243}{24} \geq -\frac{11}{3}\left(-\frac{15}{4}p + 1\right)$$

$$\frac{-1243}{-88} \geq \frac{-88\left(-\frac{15}{4}p + 1\right)}{-88}$$

$$\frac{-1243}{-88} \geq -\frac{15}{4}p + 1$$

$$\frac{1243}{88} - \frac{88}{88} \geq -\frac{15}{4}p$$

$$\frac{1155}{88} \geq -\frac{15}{4}p$$

$$\frac{1155}{88} \cdot \frac{4}{15} \geq -\frac{15}{4}p \cdot \frac{4}{15}$$

$$-\frac{7}{2} \geq p \quad \left( p \leq -\frac{7}{2} \right)$$

$$\frac{12}{36} \cdot -\frac{10}{3} \left( \frac{15}{4}p - \frac{8}{3} \right) \leq \frac{1895}{36} \cdot \frac{36}{36}$$

$$-120 \left( \frac{15}{4}p - \frac{8}{3} \right) \leq 1895$$

$$-\overset{30}{120} \cdot \frac{15}{4}p - \overset{40}{120} \cdot \frac{8}{3} \leq 1895$$

$$-450p - 320 \leq 1895$$

$$-450p + 320 \leq 1895$$

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$$p \leq -\frac{7}{2} \quad \begin{array}{l} -450p \leq 1575 \\ \hline -450 \quad -450 \end{array}$$

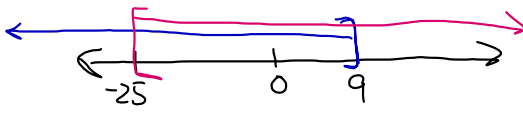
$$(37) \quad -4(8a - 2) + 8(8 + 4a) < 7$$

$$-32a + 8 + 64 + 32a < 7$$

$$0 + 72 < 7$$

$$72 < 7$$

D  
C  
M  
A/S  
M/D

$$41) |n+8|+6 \leq 23$$
$$\frac{-6 \quad -6}{|n+8| \leq 17}$$
$$\begin{array}{l} n+8 \leq 17 \\ -8 \quad -8 \\ \hline n \leq 9 \end{array} \qquad \begin{array}{l} n+8 \geq -17 \\ -8 \quad -8 \\ \hline n \geq -25 \end{array}$$

$$-25 \leq n \leq 9$$
$$[-25, 9]$$