

More Expressions, Equations, Inequalities

Evaluate each using the values given.

1) $(z)\left(\frac{z^2x}{6}\right)$; use $x = 6$, and $z = 2$

2) $(y)\left(\frac{x}{2} + 5 + 3\right)$; use $x = 2$, and $y = 5$

Simplify each expression.

3) $9(-5 - 10n) + 6$

4) $-9x - 10(x - 1)$

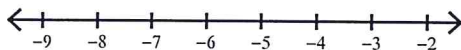
Solve each equation.

5) $19 + 3a = 7(a + 1)$

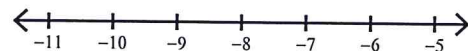
6) $-2(v + 5) + 6 = -12 - 4v$

Solve each inequality and graph its solution.

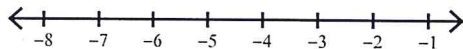
7) $6 \geq -1 - 2v - 3$



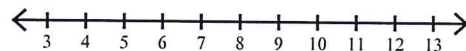
8) $6n - 3n \leq -21$



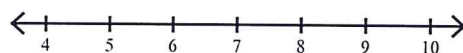
9) $149 \geq v + 8(1 - 6v)$



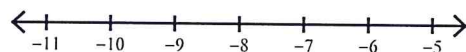
10) $-336 \leq -8(5x + 2)$



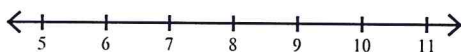
11) $-5(1 - 4n) < 155$



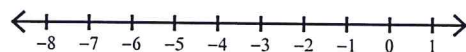
12) $-107 \geq 7 - 2(1 - 7m)$



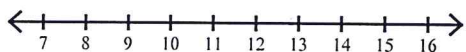
13) $5(8x - 8) > -7(-6x + 8)$



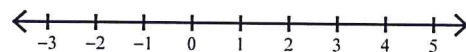
14) $-8(-1 + 3x) > 3x + 4(-6x + 5)$



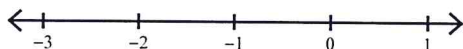
15) $8x - 8(-x + 3) \geq 6(4 + 2x)$



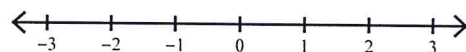
16) $-2(3 - 5n) - 6n > 2(-8n + 7)$



17) $\frac{41}{20} \geq \frac{2}{5}x + 1 + \frac{7}{4}$



18) $\frac{3}{2}a + \frac{2}{5} + \frac{1}{6} < \frac{77}{30}$



Answers to More Expressions, Equations, Inequalities

1) 8

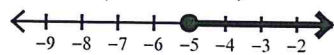
2) 45

3) $-39 - 90n$

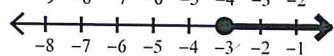
4) $-19x + 10$


5) $\{3\}$

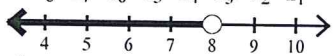
6) $\{-4\}$


7) $v \geq -5$: 

8) $n \leq -7$: 

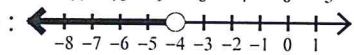
9) $v \geq -3$: 

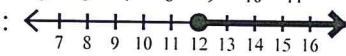
10) $x \leq 8$: 

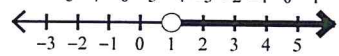
11) $n < 8$: 

12) $m \leq -8$: 

13) $x < 8$: 

14) $x < -4$: 

15) $x \geq 12$: 

16) $n > 1$: 

17) $x \leq -\frac{7}{4}$: 

18) $a < \frac{4}{3}$: 