

ASSIGNMENT #2: SOLVING INEQUALITIES

Use the properties of equality to solve the following inequalities. Don't forget about the flips!

1: $26 > 18 + v$

2: $-11 + n < -9$

3: $x - 7 > 13$

4: $v - 15 < -20.5$

5: $-4b > -56$

6: $\frac{b}{30} < 16$

7: $\frac{v}{8} < -24$

8: $-216 > -8x$

9: $4x - 7 > -7$

10: $-n + 7 < -31$

11: $-5x - 13 > -93$

12: $12(6 - k) < 84$

13: $18(x + 5) < -126$

14: $-6 < \frac{a}{4} + 2$

15: $\frac{m}{9} - 21 > -2$

CHALLENGE PROBLEMS:

$$5x - 17x + 17 > 3x + 128$$

ANSWER BANK

$n < 2$	$a > -32$	$x < -12$	$b < 480$	$b < 14$
$x > 20$	$n > 38$	$x > 0$	$k > -1$	$v < -192$
$x > 27$	$x < 16$	$v < -5.5$	$m > 171$	$v < 8$

CHALLENGE

$$x < \frac{-111}{15}$$