

ReTest: Translating, solving equations, inequalities and proportion

Write an algebraic expression

1) The sum of 5 and half a number: _____

2) 9 less than cube of a number : _____

3) 7 less than a number : _____

4) Product of 8 and difference of a number and 6: _____

Solve for X

5) $17x + 22 - 13x = 26$

6) $4x - 4 = 4x + 6$

7) $5(9x-5) = -5$

8) $5x - 4 - 2x = 2 + 3x + 2$

Graph the inequality and write interval notation:

9) $-6 > -2x$

Interval notation: _____

10) $2 - \frac{n}{3} < -2$

Interval notation: _____

Solve following proportions:

11) $\frac{x}{3} = \frac{16}{12}$

12) $\frac{(7+n)}{80} = \frac{5}{20}$

13) $\frac{5}{15} = \frac{k-4}{3}$

Write the following in function form:

14) $-2x - 2y = 18$

15) $-2 + 3y = -5x$