

1.1 Writing and Translating Algebraic Expressions

KEYWORDS: (operations)

+ - sum, plus, add,
more than, increased by, exceeds by
(switch) (=) (+)

- minus, difference, less than (switch)
decreased by, subtracted from (switch)

x - times, multiply, product, twice (x2)
of (fractions)

÷ - divide, quotient

*Commas show separation... that may need ()

Examples:

1. The product of twelve and a number
 $12x$

2. One eighth of a number
 $\frac{1}{8}x$

3. The difference between a number and five
 $x - 5$

4. Fifteen more than a value
 $x + 15$

5. Twice a number increased by four
 $2x + 4$

6. Thirteen decreased by eight times a number
 $13 - 8x$

7. the quotient of a number and twelve
 $x \div 12$ $\boxed{\frac{x}{12}}$

8. Seven times a number, decreased by the square root of three
 $7x - \sqrt{3}$

9. Twice the sum of eight and a number
 $2(8 + x)$

10. Four less than three times a number
 $3x - 4$

11. The quotient of a number and seven, minus five
 $x \div 7 - 5$ $\boxed{\frac{x}{7} - 5}$

12. Four times a number decreased by twice the same number
 $4x - 2x$

13. Fifteen less than a number
 $x - 15$

14. The difference between four and the square of a number
 $4 - x^2$

15. Twenty less than six times a number
 $6x - 20$

HOMEWORK:

Worksheet - HW

Translating Expressions