1.1 Writing and Translating Algebraic Expressions

KEYWORDS: (operations) + -add, plus, sum → and, increased by, more than, added to

- Subtract, minus, difference - and, decreased by less than, subtracted from

×-multiply, times, product - and, twice (x2) of (fractions)

÷ - divide, quotient → and

*Commas show separation... may need parentheses

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Examples:

1. The product of twelve and a number

2. One eighth of a number

3. The difference between a number and five

4. Fifteen more than a value

$$X + 15$$

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5. Twice a number increased by four

$$2x + 4$$

6. Thirteen decreased by eight times a number

7. the quotient of a number and twelve



8. Seven times a number, decreased by the square root of three

$$7x-\sqrt{3}$$

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9. Twice the sum of eight and a number

$$2(8+x)$$

Twice the difference 2(-)

Twice the sum

2(+)

Three times the sum
3(+)

Three times the difference 3(-)

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10. Four less than three times a number

$$3x-4$$

11. The quotient of a number and seven, minus five

$$\frac{x}{7} - 5$$

12. Four times a number decreased by twice the same number

$$4x-2x$$

13. Fifteen less than a number

$$\times -15$$

14. The difference between four and the square of a number

15. Twenty less than six times a number

$$6x - 20$$

HOMEWORK:

Worksheet - HW 1.1 Translating Expressions

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