

ALWAYS, SOMETIMES, NEVER

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

1.

$$x + 3 = 3 + x$$

3.

$$x^2 = 2x$$

5.

$$x + 1 = x$$

7.

$$x^2 = -1$$

9.

$$x + 0 = x$$

11.

$$x^2 = x$$

13.

$$x + 5 = 5 - x$$

15.

$$3x = x + 2x$$

17.

$$2(x - 3) = 2x - 6$$

19.

$$x + 7 = 7 + x$$

21.

$$x^2 = -4$$

2.

$$2x = x + x$$

4.

$$5 - x = x - 5$$

6.

$$3(x + 2) = 3x + 6$$

8.

$$x/2 = 2x$$

10.

$$2x + 3 = 3 + 2x$$

12.

$$4x - 2 = 2(2x - 1)$$

14.

$$x^2 + 1 = 0$$

16.

$$x/3 = 3x$$

18.

$$x^2 = 4$$

20.

$$5x = 0$$

22.

$$4(x + 1) = 4x + 4$$

23.

$$2x + 1 = 2(x + 1)$$

25.

$$x - x = 0$$

27.

$$x/4 = 4x$$

29.

$$2x + 3 = 3x + 2$$

24.

$$x^2 = 9$$

26.

$$3x = x + x + x$$

28.

$$x^2 = x^3$$

30.

$$x + 2 = 2 + x$$

MASTER QUESTIONS



M1.

A number plus 5 equals 5 plus the same number

M2.

Twice a number equals the number added to itself

M3.

A number squared equals twice the number

M4.

Five minus a number equals the number minus five

M5.

A number plus one equals the number itself

M6.

Three times a number plus six equals three times the sum of the number and two

M7.

A number squared equals negative one

M8.

Half of a number equals double the number

M9.

A number plus zero equals the number itself

M10.

Two times a number plus three equals three plus two times the number