ALWAYS, SOMETIMES, NEVER

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

MAIN QUESTIONS

1.

$x + 3 = 3 + x$

Always

2.

$2x = x + x$

Always

3.

$x^2 = 2x$

Sometimes

4.

$5 - x = x - 5$

Sometimes

5.

$x + 1 = x$

Never

6.

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

Always

7.

$x^2 = -1$

Never

8.

$x/2 = 2x$

Sometimes

9.

$x + 0 = x$

Always

10.

$2x + 3 = 3 + 2x$

Always

11.

$x^2 = x$

Sometimes

12.

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

Always

13.

$x + 5 = 5 - x$

Sometimes

14.

$x^2 + 1 = 0$

Never

15.

$3x = x + 2x$

| Always

16.

$x/3 = 3x$

| Sometimes

17.

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

| Always

18.

$x^2 = 4$

| Sometimes

19.

$x + 7 = 7 + x$

| Always

20.

$5x = 0$

| Sometimes

21.

$x^2 = -4$

| Never

22.

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

| Always

23.

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

| Never

24.

$x^2 = 9$

| Sometimes

25.

$x - x = 0$

| Always

26.

$3x = x + x + x$

| Always

27.

$x/4 = 4x$

| Sometimes

28.

$x^2 = x^3$

| Sometimes

29.

$2x + 3 = 3x + 2$

| Sometimes

30.

$x + 2 = 2 + x$

| Always

MASTER QUESTIONS

M1.

A number plus 5 equals 5 plus the same number

> Always

M2.

Twice a number equals the number added to itself

> Always

M3.

A number squared equals twice the number

> Sometimes

M4.

Five minus a number equals the number minus five

> Sometimes

M5.

A number plus one equals the number itself

> Never

M6.

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

> Always

M7.

A number squared equals negative one

> Never

M8.

Half of a number equals double the number

> Sometimes

M9.

A number plus zero equals the number itself

> Always

M10.

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

> Always