# EXPANDING BINOMIALS

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

## MAIN QUESTIONS

1.

$(x + 2)(x + 3)$

2.

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

3.

$(x + 5)(x + 2)$

4.

$(x + 3)(x + 7)$

5.

$(x + 6)(x + 4)$

6.

$(x + 8)(x + 9)$

7.

$(x + 10)(x + 11)$

8.

$(x - 2)(x - 3)$

9.

$(x - 4)(x - 1)$

10.

$(x - 5)(x - 2)$

11.

$(x - 3)(x - 7)$

12.

$(x - 6)(x - 4)$

13.

$(x - 8)(x - 9)$

14.

$(x - 10)(x - 11)$

15.

$(x + 2)(x - 3)$

16.

$(x + 4)(x - 1)$

17.

$(x + 5)(x - 2)$

18.

$(x + 3)(x - 7)$

19.

$(x + 6)(x - 4)$

20.

$(x + 8)(x - 9)$

21.

$(x + 10)(x - 11)$

22.

$(x - 2)(x + 3)$

23.

$(x - 4)(x + 1)$

24.

$(x - 5)(x + 2)$

25.

$(x - 3)(x + 7)$

26.

$(x - 6)(x + 4)$

27.

$(x - 8)(x + 9)$

28.

$(x - 10)(x + 11)$

29.

$(x + 12)(x - 13)$

30.

$(x - 14)(x + 15)$

31.

$(x + 16)(x - 17)$

32.

$(x - 18)(x + 19)$

33.

$(x + 20)(x - 21)$

34.

$(x - 22)(x + 23)$

35.

$(x + 24)(x - 25)$

## MASTER QUESTIONS

M1.

A rectangular garden has length $(x + 5)$ metres and width $(x + 3)$ metres. Find the area in expanded form.

M2.

The area of a square is $(x - 4)(x - 4)$. Expand this expression.

M3.

A room's length is $(x + 7)$ metres and width is $(x - 2)$ metres. Calculate the area in expanded form.

M4.

The product of two consecutive numbers can be written as $(x)(x + 1)$. Expand this binomial expression.

M5.

A picture frame has outer dimensions $(x + 10)$ cm by $(x + 8)$ cm. Find the area of the frame's outer surface in expanded form.