JRA Tutors
Private tuition and small online Study Pods

Expanding Triple Brackets

Grade 6 topic · Higher tier · Edexcel and AQA

How to use this pack
20 questions that get harder as you go. Questions 1–15 (70 marks) build up to the harder Grade 8–9 style questions at the end; aim to complete all 20. Show your working on the lines and write your final answer on the answer line, then mark yourself with the answers at the back. Diagrams are not drawn accurately. Total: 100 marks.

Warm-up

1 Expand and simplify $(x + 2)(x - 3)(x + 5)$. **[4 marks]**

Answer _____

2 Expand and simplify $(x - 1)(x + 2)(x + 1)$. **[4 marks]**

Answer _____

3 Expand and simplify $(x - 4)(x + 3)(x + 4)$. **[4 marks]**

Answer _____

4 Expand and simplify $(x - 3)(x + 2)(x + 2)$. **[4 marks]**

Answer _____

5 Expand and simplify $(x + 3)(x - 3)(x - 3)$. **[4 marks]**

Answer _____

Core

6 Expand and simplify $(x - 3)^2(x - 5)$. **[5 marks]**

Answer _____

7 Expand and simplify $(x - 1)^2(x + 1)$. **[5 marks]**

Answer _____

8 Expand and simplify $(x + 3)^2(x + 4)$. **[5 marks]**

Answer _____

9 Expand and simplify $(x + 2)^2(x - 5)$. **[5 marks]**

Answer _____

10 Expand and simplify $(x + 4)^2(x - 3)$. **[5 marks]**

Answer _____

Stretch

11 Expand and simplify $(3x - 4)(x - 1)(x - 3)$. **[5 marks]**

Answer _____

12 Expand and simplify $(2x + 4)(x + 3)(x + 1)$. **[5 marks]**

Answer _____

13 Expand and simplify $(3x + 5)(x + 1)(x - 5)$. **[5 marks]**

Answer _____

14 Expand and simplify $(2x - 1)(x + 1)(x - 3)$. **[5 marks]**

Answer _____

15 Expand and simplify $(3x - 5)(x - 4)(x + 1)$. **[5 marks]**

Answer _____

Challenge

16 Expand and simplify $(2x + 4)(2x + 5)(x - 1)$. **[6 marks]**

Answer _____

17 Expand and simplify $(3x - 4)(3x + 5)(x - 5)$. **[6 marks]**

Answer _____

18 Expand and simplify $(3x - 1)(3x + 2)(x - 1)$. **[6 marks]**

Answer _____

19 Expand and simplify $(3x + 3)(3x - 1)(x + 2)$. **[6 marks]**

Answer _____

20 Expand and simplify $(2x - 1)(2x - 4)(x - 1)$. **[6 marks]**

Answer _____