JRA Tutors
Private tuition and small online Study Pods

Writing an Expression

Grade 2 topic · Foundation and Higher · Edexcel and AQA

How to use this pack
20 questions that get harder as you go. Foundation students: aim for Questions 1–15 (30 marks) and have a go at the rest. Higher students: 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: 50 marks.

Warm-up

1 Pens cost x pence each. Write an expression for the cost of 2 pens, in pence. **[1 mark]**

Answer _____

2 Amy has n sweets. Ben has 5 more sweets than Amy. Write an expression for the number of sweets Ben has. **[1 mark]**

Answer _____

3 A bag of apples weighs a kg. Write an expression for the total weight of 6 bags. **[1 mark]**

Answer _____

4 Ravi is r years old. His sister is 2 years younger. Write an expression for his sister's age. **[1 mark]**

Answer _____

5 A packet has p biscuits. Jo eats 6 biscuits. Write an expression for the number left. **[1 mark]**

Answer _____

Core

6 A rectangle has length x cm and width 2 cm. Write an expression for its perimeter. **[2 marks]**

Answer _____

7 Tickets cost £t each. Write an expression for the cost of 5 tickets and a £5 programme. **[2 marks]**

Answer _____

8 A train has n carriages with 50 seats in each. Write an expression for the total number of seats. **[2 marks]**

Answer _____

9 Mia has m marbles. Zak has twice as many as Mia plus 7. Write an expression for the number Zak has. **[2 marks]**

Answer _____

10 Write an expression for the total cost of 9 pencils at p pence each and 2 rubbers at r pence each. **[2 marks]**

Answer _____

Stretch

11 A triangle has sides x cm, (x + 6) cm and (2x − 5) cm. Write a simplified expression for its perimeter. **[3 marks]**

Answer _____

12 Sam is s years old. His dad is 9 times as old as Sam. In 7 years' time his dad will be how old? Write an expression. **[3 marks]**

Answer _____

13 A square has side x cm. Write an expression for its area and for its perimeter. **[3 marks]**

Answer _____

14 Taxi fares cost £5 plus £5 per mile. Write an expression for the cost of a journey of m miles. **[3 marks]**

Answer _____

15 n is an odd number. Write an expression for the next odd number. **[3 marks]**

Answer _____

Challenge

16 n is an integer. Write an expression for three consecutive integers starting at n, and for their sum. **[4 marks]**

Answer _____

17 Write an expression for the area of a rectangle with length (x + 9) cm and width 6 cm. **[4 marks]**

Answer _____

18 The cost of hiring a bike is £5 plus £4 per hour. Hana pays £25. Write an equation and find the number of hours. **[4 marks]**

Answer _____

19 A number is x. Write an expression for: add 6, then multiply by 4. **[4 marks]**

Answer _____

20 Write an expression for the mean of x, 2x and (x + 16). **[4 marks]**

Answer _____