

GCSE Mathematics

F

Algebraic Notation and Vocabulary

Foundation | Grades 1-3

Total Marks	Time	Questions
28	28 min	20

Instructions:

- Do not use a calculator when you see: 
- Answer all questions in the spaces provided.
- Show all your working - marks are awarded for method as well as final answers.
- Cross through any work you do not want to be marked.
- Check your answers if you have time at the end.

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Edexcel-style questions**Q1** 

Grade 1

Edexcel style

Write an expression for 4 more than n .

Answer

teachably

[1 mark]**Q2** 

Grade 2

Edexcel style

Work out the value of $3a + 2$ when $a = 4$.

Answer

teachably

[2 marks]**Q3** 

Grade 1

Edexcel style

In the expression $5x + 3$, write down the coefficient of x .

Answer

teachably

[1 mark]

Q4

Grade 2

Edexcel style

Write $c \times c \times c \times c \times c$ as a single power of c .

Answer

teachably

[1 mark]**Q5**

Grade 3

Edexcel style

A taxi charges a £3 fixed fee plus £2 per mile. Write a formula for the total cost C , in pounds, for a journey of m miles.

Answer

teachably

[2 marks]

AQA-style questions**Q6** 

Grade 1

AQA style

Write an expression for 6 less than y .

Answer

teachably

[1 mark]**Q7** 

Grade 2

AQA style

Work out the value of $5b - 3$ when $b = 6$.

Answer

teachably

[2 marks]**Q8** 

Grade 1

AQA style

Is $3x + 7 = 22$ a formula, an equation or an identity?

Answer

teachably

[1 mark]

Q9

Grade 2

AQA style

Write $d \times d \times d$ as a single power of d .

Answer

teachably

[1 mark]**Q10**

Grade 3

AQA style

A plumber charges a £25 call-out fee plus £15 per hour. Write a formula for the total cost C , in pounds, for h hours of work.

Answer

teachably

[2 marks]

OCR-style questions**Q11** 

Grade 1

OCR style

Write an expression for w multiplied by 8.

Answer

teachably

[1 mark]**Q12** 

Grade 2

OCR style

Work out the value of $2x + 7$ when $x = 5$.

Answer

teachably

[2 marks]**Q13** 

Grade 1

OCR style

In the expression $4a + 2b - 7$, how many terms are there?

Answer

teachably

[1 mark]

Q14

Grade 2

OCR style

Work out the value of 3^2 .

Answer

teachably

[1 mark]**Q15**

Grade 3

OCR style

A car park charges a £2 entry fee plus £1 for each hour parked. Write a formula for the total cost C , in pounds, for h hours.

Answer

teachably

[2 marks]

Teachably-style questions**Q16** 

Grade 1

Teachably style

Write an expression for p divided by 5.

Answer

teachably

[1 mark]**Q17** 

Grade 2

Teachably style

Work out the value of $4y - 5$ when $y = 3$.

Answer

teachably

[2 marks]**Q18** 

Grade 1

Teachably style

Is $2(x + 3) \equiv 2x + 6$ a formula, an equation or an identity?

Answer

teachably

[1 mark]

Q19 

Grade 2

Teachably style

Work out the value of 2^4 .

Answer

teachably

[1 mark]

Q20 

Grade 3

Teachably style

A gym charges a £15 joining fee plus £8 per month. Write a formula for the total cost C , in pounds, after m months of membership.

Answer

teachably

[2 marks]

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