FOUNDATION

1.10 BIDMAS: 30-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 3×2^3

(Total for Question 1 is 2 marks)

2 Work out $(7 - 2) \times (9 - 6)$

(Total for Question 2 is 2 marks)

3 Work out $50 / (2 + 3) - 4$

(Total for Question 3 is 2 marks)

4 Work out $2 \times 3^2 - (4 + 1)$

(Total for Question 4 is 3 marks)

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5 Work out (6 + 11) x 8 - 9

(Total for Question 5 is 3 marks)

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6 Circle the correct value of 15 - 2 x 6

- ☐ A) 3
- ☐ B) 78
- ☐ C) 12
- ☐ D) -3

(Total for Question 6 is 1 mark)

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7 Insert one of the symbols +, -, x, / into the box to make the calculation correct: 10 [ ] 6 / 2 = 13

(Total for Question 7 is 1 mark)

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8 Show that $2 + 3 \times (7 - 4)^2 - 5 = 24$

(Total for Question 8 is 3 marks)

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9 A car park charges a flat entry fee of £2 plus £3 for every hour of parking.

(a) Write an expression for the total cost, in pounds, of parking for h hours. **(1)**

(b) Use your expression to work out the total cost of parking for 5 hours. **(2)**

(Total for Question 9 is 3 marks)

10 Work out $(5 + 3)^2 - 4 \times (6 - 3)$.

(Total for Question 10 is 3 marks)

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Mark scheme · 1.10 BIDMAS: 30-minute Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

$2^3 = 8$ seen **M1**

24 cao **A1**

Answer: 24

Question 2

7 - 2 = 5 and 9 - 6 = 3 both evaluated **M1**

15 cao **A1**

Answer: 15

Question 3

2 + 3 = 5 and 50 / 5 = 10 seen **M1**

6 cao **A1**

Answer: 6

Question 4

$3^2 = 9$ and 4 + 1 = 5 both evaluated **M1**

2 x 9 (= 18) seen **M1**

13 cao **A1**

Answer: 13

Question 5

brackets evaluated first **M1**

next operation correct **M1**

127 cao **A1**

Answer: 127

Question 6

A (3) cao **B1**

Answer: A) 3

Question 7

+ written, oe **B1**

Answer: +

Question 8

7 - 4 = 3 and $3^2 = 9$ both evaluated **M1**

3 x 9 (= 27) seen **M1**

2 + 27 - 5 = 24 shown, cso **A1**

Answer: 24 (shown)

Question 9

(a) 2 + 3h oe **B1**

(a) Answer: 2 + 3h

(b) 3 x 5 (= 15) seen, or correct substitution of h = 5 into a correct expression (ft from part a) **M1**

(b) £17 cao **A1**

(b) Answer: £17

Question 10

evaluate $(5 + 3)^2 = 8^2 = 64$ or show correct squaring **M1**

evaluate (6 - 3) = 3 and 4 x 3 = 12 **M1**

52 cao **A1**

Answer: 52

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