

# BIDMAS

## Mark Scheme

Level	GCSE
Subject	Maths
Exam Board	Edexcel GCSE
Topic	BIDMAS
Grade Level	Grade 1/2
Booklet	Mark Scheme

**Time Allowed:** 56 minutes

**Score:** /46

**Percentage:** /100

**Grade Boundaries:**

1. (a) Work out  $4 \times 3 + 2$

$$12 + 2$$

$$\begin{array}{r} 14 \\ \hline \end{array} \quad (1)$$

- (b) Work out  $20 - 12 \div 4$

$$20 - 3$$

$$\begin{array}{r} 17 \\ \hline \end{array} \quad (1)$$

- (c) Work out  $(18 \div 3) + (20 \div 5)$

$$6 + 4$$

$$\begin{array}{r} 10 \\ \hline \end{array} \quad (1)$$

- (d) Work out  $(3 + 5)^2$

$$8^2$$

$$\begin{array}{r} 64 \\ \hline \end{array} \quad (1)$$

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(4 marks)

2. Work out

- (i)  $3 \times 3 - 5$

$$9 - 5$$

$$\begin{array}{r} 4 \\ \hline \end{array}$$

- (ii)  $20 \div (12 - 2)$

$$20 \div 10$$

$$\begin{array}{r} 2 \\ \hline \end{array}$$

- (iii)  $7 + 8 \div 4$

$$7 + 2$$

$$\begin{array}{r} 9 \\ \hline \end{array}$$

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(3 marks)

3. Beth says  $20 - 5 \times 3$  is 45

Pat says  $20 - 5 \times 3$  is 5

- (a) Who is right?  
Give a reason for your answer.

Pat is right.

Multiplication comes before subtraction

..... Pat ..... is right

(2)

- (b) Work out  $(12 + 9) \div 3$

$$21 \div 3$$

..... 7 .....

(1)

(3 marks)

- 
4. (a) Work out the value of

- (i) the square of 6

..... 36 .....

- (ii)  $2^4$

..... 16 .....

(2)

- (b) Work out the value of

- (i)  $-10 \div 5$

..... -2 .....

- (ii)  $-3 \times -4$

..... 12 .....

(2)

(4 marks)

5. (a) Work out  $2 \times (11 + 9)$

$$2 \times 20$$

$$\dots\dots\dots 40$$

(1)

- (b) Work out  $3 \times 5 + 4$

$$15 + 4$$

$$\dots\dots\dots 19$$

(1)

- (c) Work out  $20 - 5 \times 3$

$$20 - 15$$

$$\dots\dots\dots 5$$

(1)

**(3 marks)**

- 
6. (a) Work out the value of  $(4 + 5) \times 2 + 3$

$$18 + 3$$

$$\dots\dots\dots 21$$

(1)

- (b) Add brackets ( ) to make each statement correct.  
You may use more than one pair of brackets in each statement.

(i)  $4 + 5 \times (2 + 3) = 29$

(ii)  $(4 + 5) \times (2 + 3) = 45$

(2)

**(3 marks)**

7. (a) Work out the value of  $(2 + 3) \times 4 + 5$

$$20 + 5$$

$$\dots\dots\dots 25 \dots\dots\dots$$

(1)

- (b) Add brackets ( ) to make each statement correct.  
You may use more than one pair of brackets in each statement.

(i)  $2 + 3 \times (4 + 5) = 29$

(ii)  $(2 + 3) \times (4 + 5) = 45$

(2)

(3 marks)

- 
8. Work out

(i)  $2 \times 3 + 4$   
 $6 + 4$

$$\dots\dots\dots 10 \dots\dots\dots$$

(ii)  $3 + 5 \times 2$   
 $3 + 10$

$$\dots\dots\dots 13 \dots\dots\dots$$

(ii)  $16 \div (2 \times 4)$   
 $16 \div 8$

$$\dots\dots\dots 2 \dots\dots\dots$$

(3 marks)

9. (a) Work out

$$\frac{-8 \times -3}{-6}$$

$$\frac{24}{-6}$$

$$\frac{-4}{\dots\dots\dots}$$

(1)

- (b) Work out

$$33 \times 10 - 6 \times 5$$

$$330 - 30$$

$$\frac{300}{\dots\dots\dots}$$

(2)

- (c) Work out

$$6 + 2 \times (5 - 1)$$

$$6 + 8$$

$$\frac{14}{\dots\dots\dots}$$

(2)

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(5 marks)

10. Frankie says that  $15 - 3 \times 2 = 24$

Frankie is wrong.  
Explain why.

Multiplication comes before subtraction

.....

$$15 - (3 \times 2) \neq 24$$

$$15 - 6 \neq 24$$

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(3 marks)

11. (a) Work out  $4 \times 5 - 8$

$$20 - 8$$

.....12.....

(1)

(b) Work out  $18 + 2 \times 3$

$$18 + 6$$

.....24.....

(1)

(c) Work out  $7 + 3 \times 5$

$$7 + 15$$

.....22.....

(1)

(d) Work out  $13 - 3 \times 4 + 2$

$$13 - 12 + 2$$

.....3.....

(1)

(e) Work out  $(4 + 3) \times 7$

$$7 \times 7$$

.....49.....

(1)

(e) Work out  $20 - (4 + 10)$

$$20 - 14$$

.....6.....

(1)

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(6 marks)

12. (a) Write down the value of  $\sqrt{81}$

.....9.....  
(1)

- (b) Work out the value of  $5^2 + 2^3$

$$25 + 8$$

.....33.....  
(2)

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(3 marks)

13. (a) Work out the value of  $(9 + 2) \times 6 - 3$

$$11 \times 6 - 3$$
$$66 - 3$$

.....63.....  
(1)

- (b) Add brackets ( ) to make each statement correct.  
You may use more than one pair of brackets in each statement.

(i)  $9 + 2 \times 6 - 3 = 18$

$$9 + 12 - 3 = 18$$

(ii)  $9 + 2 \times (6 - 3) = 15$

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(2)  
(3 marks)