

Name

ANSWERS

Class



**MATHS TEACHER HUB**

www.MathsTeacherHub.com

# BIDMAS

(9 – 1) Topic booklet

## Foundation

These questions have been collated from previous years GCSE Mathematics papers.

**You must have:** Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.

Total Marks

### Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must **show all your working out**.
- If the question is a 1F question you are not allowed to use a calculator.
- If the question is a 2F or a 3F question, you may use a calculator to help you answer.

### Information

- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*

### Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

**Answer ALL questions**  
**Write your answers in the space provided.**  
**You must write down all the stages in your working.**

2 Work out  $2 + 7 \times 10$   
 $2 + 70$

72

November 2017 – Paper 1F

(Total for Question 2 is 1 mark)

3 Work out  $10 \times (3 + 5)$   
 $10 \times 8$

80

June 2019 – Paper 1F

(Total for Question 3 is 1 mark)

5 (a) Work out  $3 \times 5 + 7$   
 $15 + 7$

22

(1)

(b) Work out  $2^3$

8

(1)

(c) Write brackets ( ) in this statement to make it correct.

$$7 \times (2 + 3) = 35$$

(1)

November 2018 – Paper 1F

(Total for Question 5 is 3 marks)

- 9 Alec needs to work out the value of  $2 + 3 \times 4$

He writes

$$2 + 3 = 5 \text{ and } 5 \times 4 = 20, \text{ so } 2 + 3 \times 4 = 20$$

Alec is wrong.  
Explain why.

Multiplication must be completed before  
the addition.

Answer should be 14

November 2021 – Paper 1F

(Total for Question 9 is 1 mark)

- 11 (a) Work out  $-12 \div -4$

3

(1)

- (b) Find the value of  $2^5$

$$2 \times 2 \times 2 \times 2 \times 2$$

32

(1)

- (c) Write **one** pair of brackets in this calculation so that the answer is correct.

$$30 \div (3 + 2) - 4 = 2$$

(1)

May 2024 – Paper 1F

(Total for Question 11 is 3 marks)

15 Jenny is asked to find the value of  $12 - 2 \times 4$

Here is her working.

$$12 - 2 \times 4 = 10 \times 4 = 40$$



Jenny's answer is wrong.

(a) Explain what Jenny has done wrong.

She should have multiplied  $2 \times 4$  first  
 $12 - 8 = 4$

(1)

Rehan is asked to find the range of the numbers 3 1 8 7 5

Here is his working.

$$\text{Range} = 5 - 3 = 2$$

This is wrong.

(b) Explain why.

largest = 8  
smallest = 1  
 $8 - 1 = 7$

(1)