

Name

ANSWERS

Class



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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 $2 + 7 \times 10$

$$\underline{2+70}$$

$$72$$

November 2017 – Paper 1F

(Total for Question 2 is 1 mark)

3 Work out $10 \times (\underline{3+5})$

$$10 \times 8$$

$$80$$

June 2019 – Paper 1F

(Total for Question 3 is 1 mark)

5 (a) Work out $\underline{3 \times 5} + 7$

$$\underline{15+7}$$

$$22$$

(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 2×4 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.

$$\text{largest} = 8$$

$$8 - 1 = 7$$

$$\text{Smallest} = 1$$

(1)

May 2018 – Paper 3F

(Total for Question 15 is 2 marks)