Name	Date

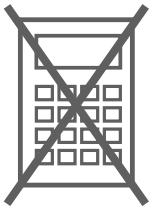
GCSE Mathematics 9-1

Priority of Operations (BIDMAS)

(Non-Calculator)

Exam-Style Topic Paper	Total Marks
Time: 43 minutes	**/ 38**

Instructions



- Use black ink or ball-point pen.
- Fill in the boxes at the top of this page with your name and date number.
- Answer all questions.
- Answer the questions in the spaces provided – there may be more space than you need.
- You must show all your working.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- Calculators may **not** be used.

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.
- Try to answer every question.
- Check your answers if you have time at the end.

1 Work out $3 + 4 \times 5$

.....

[1 mark]

2 Work out $20 - 12 \div 4$

.....

[1 mark]

3 Work out $100 - 4^2$

.....

[1 mark]

4 Work out $6 \times 2 + 8$

.....

[1 mark]

5 Work out $18 \div 3 - 2$

.....

[1 mark]

6 Work out 2×3^2

.....

[1 mark]

7 Work out $5 + 6 \times 3 - 4$

.....

[2 marks]

8 Work out $30 - 4 \times 5 + 2$

.....

[2 marks]

9 Work out $7 + 24 \div 6 \times 2$

.....

[2 marks]

10 Work out $3^2 + 4 \times 2$

.....

[2 marks]

11 Work out $50 - 2 \times 3^2$

.....

[2 marks]

12 Work out $\sqrt{81} + 5 \times 2$

.....

[2 marks]

13 Work out $4 \times \sqrt{25} - 3^2$

.....

[2 marks]

14 Work out $60 \div 2^2 + 1$

.....

[2 marks]

15 Put brackets in to make this calculation correct.

$$2 + 3 \times 4 = 20$$

[1 mark]

16 Put brackets in to make this calculation correct.

$$10 - 6 \div 2 = 2$$

[1 mark]

17 Put brackets in to make this calculation correct.

$$8 \times 5 - 3 = 16$$

[1 mark]

18 Put brackets in to make this calculation correct.

$$4 + 8 \div 2 + 2 = 6$$

[1 mark]

19 Put brackets in to make this calculation correct.

$$20 - 3^2 \times 2 = 22$$

[1 mark]

20 Sam says that $2 + 6 \times 5 = 40$
William says that $2 + 6 \times 5 = 32$
Who is correct?
Explain your answer.

[2 marks]

21 Priya says that $12 - 4 \div 2 = 4$
Jack says that $12 - 4 \div 2 = 10$
Who is correct?
Explain your answer.

[2 marks]

22 Ella says that $3 + 2^2 \times 5 = 125$
Tom says that $3 + 2^2 \times 5 = 23$
Who is correct?
Explain your answer.

[2 marks]

23 Leah says that $18 \div 3 + 6 = 2$
Max says that $18 \div 3 + 6 = 12$
Who is correct?
Explain your answer.

.....

.....

[2 marks]

24 Here are two calculations.

$$5 + 3 \times 2 \qquad 5 \times 3 + 2$$

Which calculation gives the bigger answer?
You must show your working.

.....

[2 marks]

25 Write + or × in each box to make this calculation correct.

$$4 \square 3 \square 2 = 10$$

[1 mark]