

Name: _____

GCSE (1 – 9)

The Order of Operations (BIDMAS)

Instructions

- Use **black** ink or ball-point pen.
- 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.**

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

1 Work out $3 \times 5 - 4$

$$15 - 4$$

11

(Total for Question 1 is 1 mark)

2 Work out $2 + 4 \times 5$

$$2 + 20$$

22

(Total for Question 2 is 1 mark)

3 Work out $(8 - 2) \times 3$

$$6 \times 3$$

18

(Total for Question 3 is 1 mark)

4 Work out $5 + 3^2$

$$5 + 9$$

14

(Total for Question 4 is 1 mark)

5 Work out $7 \times 2 - 3 \times 4$

$$14 - 12$$

2

(Total for Question 5 is 1 mark)

6 Work out $(5 + 2)^2$

$$7^2$$

49

(Total for Question 6 is 1 mark)

7 Work out $6 + 15 \div 3$

$$6 + 5$$

11

(Total for Question 7 is 1 mark)

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

$$3 + 10 \times 8$$

$$3 + 80$$

83

(Total for Question 8 is 1 mark)

9 Work out $20 - 2 \times 7$

$$20 - 14$$

6

(Total for Question 9 is 1 mark)

10 Work out $5 + 4^2$

$$5 + 16$$

21

(Total for Question 10 is 1 mark)

11 Work out $(7 - 4) \times (5 - 1)$

$$3 \times 4$$

12

(Total for Question 11 is 1 mark)

12 Work out $7^2 + 2 \times 4$

$$49 + 8$$

57

(Total for Question 12 is 1 mark)

13 Work out $7 \times (8 - 5)$

$$7 \times 3$$

21

(Total for Question 13 is 1 mark)

14 Work out $5 + 2 \times 9 \div 3$

$$5 + 18 \div 3$$
$$5 + 6$$

11

(Total for Question 14 is 1 mark)

15 Work out $2 \times 6 + 14 \div 2$

$$12 + 7$$

19

(Total for Question 15 is 1 mark)

16 Work out $4 - 3 + 2 \times 5$

$$4 - 3 + 10$$

11

(Total for Question 16 is 1 mark)

17 Work out $3 + 5 \times 7 + 2$

$$3 + 35 + 2$$

40

(Total for Question 17 is 1 mark)

18 Work out $2 + (5 + 3)^2$

$$2 + 8^2$$
$$2 + 64$$

66

(Total for Question 18 is 1 mark)

19 Work out $(4 \times 10) \div (10 \div 2)$

$$40 \div 5$$

8

(Total for Question 19 is 1 mark)

20 Write brackets () in this statement to make each statement correct.
You may use more than one pair of brackets in each statement.

(a) $4 \times (5 + 3) = 32$ (1)

(b) $3 + 4 \times (5 + 6) = 47$ (1)

(c) $(2 + 7) \times (5 + 3) = 72$ (1)

(Total for Question 20 is 3 marks)

21 Write brackets () in this statement to make each statement correct.
You may use more than one pair of brackets in each statement.

(a) $2 + 7 \times (3 + 4) = 51$ (1)

(b) $4 \times (3 + 2) = 20$ (1)

(c) $(9 - 7) \times (3 + 5) = 16$ (1)

(Total for Question 21 is 3 marks)