

Name:

Date:

BIDMAS/BODMAS: Order of Operation

GCSE

Edexcel
Mathematics
Grade (9-1)

Mark

Score (%)

— 38

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Materials

For this paper you must have:

- Ruler
- Pencil, Rubber, Protractor and Compass
- Scientific calculator, which you are expected to use when appropriate

Instructions

- Answer all questions
- Answer questions in the space provided
- All working must be shown
- Do all rough work in this book. Cross out any rough work you don't want to be marked

Information

- The marks for the questions are shown in brackets

			Leave blank
1	Work out	$5 + 4 \times 5$	<input type="text"/>
..... (Total for question 1 is 1 mark)			<input type="text"/>
2	Work out	$2 + 1 \times 2$	<input type="text"/>
..... (Total for question 2 is 1 mark)			<input type="text"/>
3	Work out	$(7 - 2) \times 3$	<input type="text"/>
..... (Total for question 3 is 1 mark)			<input type="text"/>
4	Work out	$(5 + 2)^2$	<input type="text"/>
..... (Total for question 4 is 1 mark)			<input type="text"/>
5	Work out	$10 - 3^2$	<input type="text"/>
..... (Total for question 5 is 1 mark)			<input type="text"/>
6	Work out	$6 + 6 \div 3$	<input type="text"/>
..... (Total for question 6 is 1 mark)			<input type="text"/>
7	Work out	$8 + 3(5 - 1)$	<input type="text"/>
..... (Total for question 7 is 1 mark)			<input type="text"/>
8	Work out	$8 \times 2 - 3 \times 4$	<input type="text"/>
..... (Total for question 8 is 1 mark)			<input type="text"/>

			Leave blank
9	Work out	$21 - 9 \div 3$	<input type="text"/>
..... (Total for question 9 is 1 mark)			<input type="text"/>
10	Work out	$13 - 7 \div 2$	<input type="text"/>
..... (Total for question 10 is 1 mark)			<input type="text"/>
11	Work out	$35 - (9 + 3)$	<input type="text"/>
..... (Total for question 11 is 1 mark)			<input type="text"/>
12	Work out	$(7 + 7) \div 2$	<input type="text"/>
..... (Total for question 12 is 1 mark)			<input type="text"/>
13	Work out	$15 \div (3 + 2)$	<input type="text"/>
..... (Total for question 13 is 1 mark)			<input type="text"/>
14	Work out	$21 - 17 + 4$	<input type="text"/>
..... (Total for question 14 is 1 mark)			<input type="text"/>
15	Work out	$10 + 5 + 3 \times 3$	<input type="text"/>
..... (Total for question 15 is 1 mark)			<input type="text"/>
16	Work out	$5 \times 3 + 2 \times 6$	<input type="text"/>
..... (Total for question 16 is 1 mark)			<input type="text"/>

			Leave blank
17	Work out	$5 \times (2 + 1) + 4$	
..... (Total for question 17 is 1 mark)			<input type="text"/>
18	Work out	$8^2 + 2 \times 3^2$	
..... (Total for question 18 is 1 mark)			<input type="text"/>
19	Work out	$35 - (9 + 3)$	
..... (Total for question 19 is 1 mark)			<input type="text"/>
20	Work out	$\sqrt{4} + 3^2$	
..... (Total for question 20 is 1 mark)			<input type="text"/>
21	Work out	$10 - \sqrt{16}$	
..... (Total for question 21 is 1 mark)			<input type="text"/>
22	Work out	$8 + (5 - 1) \times 3$	
..... (Total for question 22 is 1 mark)			<input type="text"/>
23	Work out	$2 + (5 + 3)^2$	
..... (Total for question 23 is 1 mark)			<input type="text"/>
24	Work out	$11 + 11 - 6^2 \div 2$	
..... (Total for question 24 is 1 mark)			<input type="text"/>

- 25 John thinks the answer to $16 + 2 \times 2$ is 36.
Ainsley thinks the answer to $16 + 2 \times 2$ is 20.
Who is correct?
Explain your answer.

(Total for question 25 is 2 marks)

- 26 Stan thinks the answer to $20 - 5 \div 5$ is 19.
Dan thinks the answer to $20 - 5 \div 5$ is 3.
Who is correct?
Explain your answer.

(Total for question 26 is 2 marks)

- 27 Onoala thinks the answer to $6 \times 7 - 4 \times 3$ is 30.
Francina thinks the answer to $6 \times 7 - 4 \times 3$ is 54.
Who is correct?
Explain your answer.

(Total for question 27 is 2 marks)

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

(a) $5 + 5 \div 5 = 2$ (1)

(b) $18 - 6 \div 2 = 6$ (1)

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

(Total for question 28 is 3 marks)

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

(a) $10 \times 2 + 6 = 80$ (1)

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

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

(Total for question 29 is 3 marks)

30 Johnny thinks of a number, n .
He adds 1 and then multiplies by 5.

Which expression below is correct?

$$n + 1 \times 3$$

$$5n + 1$$

$$(n + 1) \times 5$$

.....
(Total for question 30 is 2 marks)