

11+ Maths Practice Paper

Year 5 · Intermediate

Lesson 2.4: Order of operations (BIDMAS/BODMAS)

Read this with your child:

1. This paper has **24 questions** in two parts. Work through them in order. The questions get harder as you go.
2. **Part 1** is multiple choice. Choose **one** answer, A, B, C, D or E, and mark it on the separate answer sheet by drawing a firm line through the box next to its letter. If you change your mind, rub the line out completely and mark your new answer.
3. **Part 2** asks you to write your answer. Write it in the boxes on the answer sheet, **one digit in each box**, starting from the left.
4. If a question is hard, leave it and come back to it at the end.
5. You may use rough paper for working out. You may **not** use a calculator.
6. Suggested time: **30 minutes**.

The answer sheet is after the questions. The answers, with a short explanation of each, are at the back for a parent to mark with.

These are original practice questions written by Elite Learners in the style of 11+ entrance tests. They are not produced by, or connected with, GL Assessment or Cambridge University Press & Assessment (CEM).

Example

What is $4 + 3^2$?

A 49

B 10

C 13

D 16

E 25

Answer: C Indices first: $3^2 = 3 \times 3 = 9$. Then $4 + 9 = 13$.

The answer, C, has already been marked on your answer sheet.

Now turn over and start Part 1.

Part 1: Multiple choice

1

What is $6 \times 3 - 4 \times 2$?

A 10

B 28

C 36

D 20

E 8

2

What is $5^2 - 10$?

A 0

B 15

C 40

D 20

E 5

3

What is $48 \div (2 + 6) \times 3$?

A 2

B 30

C 6

D 18

E 27

4

What is $(3 + 2)^2$?

A 13

B 10

C 25

D 11

E 7

5

What is $15 - 9 \div 3 + 2$?

A 4

B 10

C 12

D 16

E 14

6

What is 2×4^2 ?

A 32

B 64

C 16

D 10

E 24

7

$8 \ ? \ 4 + 3 = 35$

Which sign goes in the gap?

A +

B -

C $\times$

D $\div$

E None of them

8

What is $7 + 3 \times (10 - 4)$?

A 60

B 33

C 15

D 27

E 25

9

What is $100 - 6^2$?

A 88

B 64

C 94

D 36

E 76

10

Where do brackets go to make $12 - 4 \div 2 = 4$ true?A $12 - (4 \div 2)$ B $(12 - 4 \div 2)$

C No brackets are needed

D $(12 - 4) \div 2$ E $(12) - 4 \div 2$

11

What is $3 \times (2 + 5) - 4$?

A 17

B 13

C 9

D 21

E 23

12

What is $4^2 + 3^2$?

A 49

B 14

C 12

D 7

E 25

13

What is $60 \div 5 \div 2$?

A 2

B 30

C 6

D 24

E 12

14

What is $2 \times (3 + 4)^2$?

A 196

B 98

C 28

D 56

E 70

15

Which calculation has the biggest answer?

A $2 + 3 \times 5$ B $2 \times 3 + 5$ C $2 \times (3 + 5)$ D $(2 + 3) \times 5$ E $2 + 3 + 5$

16

$20 \text{ ? } 5 \times 2 = 10$

Which sign goes in the gap?

A +

B −

C ×

D ÷

E None of them

17

What is $5 + (12 - (3 + 4)) \times 2$?

A 20

B 11

C 17

D 13

E 15

18

What is $3^3 - 2 \times 5$?

A 17

B 125

C 4

D 22

E 37

Part 2: Write your answer

19

What is $9 + 4 \times 6$?

Write your answer in the boxes on the answer sheet, one digit in each box.

20

What is $7^2 - 5 \times 6$?

Write your answer in the boxes on the answer sheet, one digit in each box.

21

What is $(15 - 7) \times (3 + 2)$?

Write your answer in the boxes on the answer sheet, one digit in each box.

22

What is $72 \div (4 + 2) - 3$?

Write your answer in the boxes on the answer sheet, one digit in each box.

23

What is $2 \times 5^2 + 10$?

Write your answer in the boxes on the answer sheet, one digit in each box.

24

What is $100 - 2 \times 3^2 \times 4$?

Write your answer in the boxes on the answer sheet, one digit in each box.

Answer sheet

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Name

Draw a firm line through the box next to your answer, like the example.

Part 1: Multiple choice

Ex	A ☐	B ☐	C ☒	D ☐	E ☐
1	A ☐	B ☐	C ☐	D ☐	E ☐
2	A ☐	B ☐	C ☐	D ☐	E ☐
3	A ☐	B ☐	C ☐	D ☐	E ☐
4	A ☐	B ☐	C ☐	D ☐	E ☐
5	A ☐	B ☐	C ☐	D ☐	E ☐
6	A ☐	B ☐	C ☐	D ☐	E ☐
7	A ☐	B ☐	C ☐	D ☐	E ☐
8	A ☐	B ☐	C ☐	D ☐	E ☐
9	A ☐	B ☐	C ☐	D ☐	E ☐
10	A ☐	B ☐	C ☐	D ☐	E ☐
11	A ☐	B ☐	C ☐	D ☐	E ☐
12	A ☐	B ☐	C ☐	D ☐	E ☐
13	A ☐	B ☐	C ☐	D ☐	E ☐
14	A ☐	B ☐	C ☐	D ☐	E ☐
15	A ☐	B ☐	C ☐	D ☐	E ☐
16	A ☐	B ☐	C ☐	D ☐	E ☐
17	A ☐	B ☐	C ☐	D ☐	E ☐
18	A ☐	B ☐	C ☐	D ☐	E ☐

Part 2: Write your answer, one digit in each box

19		
20		
21		
22		
23		
24		

Answers

For a parent to mark with. One mark for each question: the paper is out of 24. Talk through any your child got wrong, using the explanation.

Q	Answer	How to get it
1	A 10	Multiply first: $6 \times 3 = 18$ and $4 \times 2 = 8$. Then $18 - 8 = 10$.
2	B 15	Indices first: $5^2 = 25$. Then $25 - 10 = 15$.
3	D 18	Brackets first: $2 + 6 = 8$. Then left to right: $48 \div 8 = 6$, and $6 \times 3 = 18$.
4	C 25	Brackets first: $3 + 2 = 5$. Then $5^2 = 25$.
5	E 14	Divide first: $9 \div 3 = 3$. Then left to right: $15 - 3 = 12$, and $12 + 2 = 14$.
6	A 32	Indices before multiplying: $4^2 = 16$. Then $2 \times 16 = 32$.
7	C $\times$	$8 \times 4 + 3 = 32 + 3 = 35$. The others make 15, 7 and 5.
8	E 25	Brackets first: $10 - 4 = 6$. Then multiply: $3 \times 6 = 18$. Then $7 + 18 = 25$.
9	B 64	Indices first: $6^2 = 36$. Then $100 - 36 = 64$.
10	D $(12 - 4) \div 2$	$(12 - 4) \div 2 = 8 \div 2 = 4$. All the others still make $12 - 2 = 10$.
11	A 17	Brackets first: $2 + 5 = 7$. Then $3 \times 7 = 21$. Then $21 - 4 = 17$.
12	E 25	Indices first: $4^2 = 16$ and $3^2 = 9$. Then $16 + 9 = 25$.
13	C 6	Left to right: $60 \div 5 = 12$, then $12 \div 2 = 6$.
14	B 98	Brackets first: $3 + 4 = 7$. Then the index: $7^2 = 49$. Then $2 \times 49 = 98$.
15	D $(2 + 3) \times 5$	$(2 + 3) \times 5 = 25$. The others make 17, 11, 16 and 10.
16	B $-$	Multiply first: $5 \times 2 = 10$. Then $20 - 10 = 10$. The others make 30, 200 and 2.
17	E 15	Innermost brackets first: $3 + 4 = 7$. Then $12 - 7 = 5$. Then $5 \times 2 = 10$. Then $5 + 10 = 15$.
18	A 17	Indices first: $3^3 = 3 \times 3 \times 3 = 27$. Then $2 \times 5 = 10$. Then $27 - 10 = 17$.
19	33	Multiply first: $4 \times 6 = 24$. Then $9 + 24 = 33$.
20	19	Indices first: $7^2 = 49$. Then $5 \times 6 = 30$. Then $49 - 30 = 19$.
21	40	Both brackets first: $15 - 7 = 8$ and $3 + 2 = 5$. Then $8 \times 5 = 40$.
22	9	Brackets first: $4 + 2 = 6$. Then $72 \div 6 = 12$. Then $12 - 3 = 9$.
23	60	Indices first: $5^2 = 25$. Then $2 \times 25 = 50$. Then $50 + 10 = 60$.
24	28	Indices first: $3^2 = 9$. Then left to right: $2 \times 9 = 18$ and $18 \times 4 = 72$. Then $100 - 72 = 28$.

Score: out of 24