

11+ Maths Practice Paper

Year 6 · Advanced

Lesson 1.2: Advanced place value and decimal columns

Read this with your child:

1. This paper has **27 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: **35 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

Look at the number 9.416.

What is the value of the 6?

A 0.06

B 6

C 0.6

D 0.006

E 600

Answer: D The 6 is in the thousandths column, so it is worth 6 thousandths: 0.006.

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

Now turn over and start Part 1.

Part 1: Multiple choice

1

Which number is twelve point zero zero eight?

- A** 120.08 **B** 12.8 **C** 12.08 **D** 12.008 **E** 12.0008

2

Look at the number 30.705.

What is the value of the 7?

- A** 0.7 **B** 7 **C** 0.07 **D** 70 **E** 0.007

3

What is 0.09×1000 ?

- A** 900 **B** 9 **C** 90 **D** 0.9 **E** 9,000

4

Which is the smallest?

- A** 0.1 **B** 0.07 **C** 0.071 **D** 0.7 **E** 0.017

5

What is $42 \div 1000$?

- A** 0.42 **B** 0.042 **C** 4.2 **D** 0.0042 **E** 42,000

6

Look at the number 4.404.

What is the difference between the value of the first 4 and the value of the last 4?

- A** 4 **B** 4.004 **C** 0.4 **D** 3.96 **E** 3.996

7

What must you add to 2.538 to change the 3 into an 8, without changing any other digit?

- A** 5 **B** 0.05 **C** 0.5 **D** 0.005 **E** 0.08

8

Which of these is NOT equal to 0.6?

- A sixty hundredths
- B 0.60
- C six tenths
- D 0.06
- E 0.600

9

$? \times 100 = 47$. What is the missing number?

- A 0.47
- B 4,700
- C 4.7
- D 0.047
- E 470

10

Which list is in order, largest first?

- A $2.5 \cdot 2.405 \cdot 2.45 \cdot 2.054$
- B $2.054 \cdot 2.405 \cdot 2.45 \cdot 2.5$
- C $2.5 \cdot 2.45 \cdot 2.405 \cdot 2.054$
- D $2.45 \cdot 2.5 \cdot 2.405 \cdot 2.054$
- E $2.405 \cdot 2.45 \cdot 2.5 \cdot 2.054$

11

What is $0.6 \times 1000 \div 10$?

- A 60
- B 6
- C 600
- D 0.06
- E 6,000

12

A number is divided by 100. The answer is 0.035.

What was the number?

- A 350
- B 35
- C 0.35
- D 3.5
- E 3,500

13

0.?7 is bigger than 0.58.

Which of these could the missing digit be?

- A 2
- B 6
- C 3
- D 4
- E 5

14

Use each of the digits 5, 0 and 2 once to make a number with two decimal places, like 5.20.

What is the smallest number you can make?

- A 5.02 B 0.52 C 2.05 D 2.50 E 0.25

15

Mia multiplies 0.35 by 100. Then she divides her answer by 1000.

What is her final answer?

- A 3.5 B 0.35 C 0.035 D 35 E 0.0035

16

How many thousandths are there in 0.25?

- A 2.5 B 25 C 2,500 D 0.25 E 250

17

A bag of sweets weighs 0.125 kg.

How much do 1000 bags weigh?

- A 125 kg B 12.5 kg C 1,250 kg D 1.25 kg E 0.125 kg

18

Which number is 0.01 less than 4.3?

- A 4.31 B 4.2 C 4.29 D 4.299 E 3.3

19

Ali works out 0.4×100 . Bea works out $4,000 \div 1000$.

How much bigger is Ali's answer than Bea's?

- A 3.6 B 0 C 44 D 36 E 39.6

20

A number has 0 ones and three decimal places. Its tenths digit is 3. Its hundredths digit is double its tenths digit. Its thousandths digit is 1 less than its tenths digit.

What is the number?

- A 0.326 B 0.362 C 0.632 D 3.62 E 0.36

Part 2: Write your answer

21

What is 7.2×100 ?

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

22

How many hundredths are there in 3.05?

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

23

$? \div 1000 = 0.064$. What is the missing number?

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

24

What is 0.008×1000 ?

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

25

How many tenths are there in 12.5?

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

26

What is $0.45 \times 1000 \div 10$?

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

27

The digits of 0.86 move three places to the left. Then they move one place to the right.

What number do you get?

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 ☐
19	A ☐	B ☐	C ☐	D ☐	E ☐
20	A ☐	B ☐	C ☐	D ☐	E ☐

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

21			
22			
23			
24			
25			
26			
27			

Answers

For a parent to mark with. One mark for each question: the paper is out of 27. Talk through any your child got wrong, using the explanation.

Q	Answer	How to get it
1	D 12.008	Twelve, point, 0 tenths, 0 hundredths, 8 thousandths.
2	A 0.7	The 7 is the first digit after the point: 7 tenths.
3	C 90	Every digit moves three places to the left: 90.
4	E 0.017	Fill the gaps: 0.070, 0.071, 0.700, 0.017, 0.100. 0.017 has the fewest hundredths.
5	B 0.042	Every digit moves three places to the right: 0.042.
6	E 3.996	The first 4 is worth 4 and the last is worth 0.004. $4 - 0.004 = 3.996$.
7	B 0.05	The 3 is in the hundredths column. Going from 3 hundredths to 8 hundredths means adding 0.05.
8	D 0.06	0.06 is six hundredths. All the others are six tenths.
9	A 0.47	Do the opposite: $47 \div 100 = 0.47$.
10	C 2.5 · 2.45 · 2.405 · 2.054	Fill the gaps: 2.500, 2.450, 2.405, 2.054.
11	A 60	$0.6 \times 1000 = 600$, then $\div 10 = 60$.
12	D 3.5	Do the opposite: $0.035 \times 100 = 3.5$.
13	B 6	0.67 is bigger than 0.58. With a 5, 0.57 is smaller than 0.58.
14	E 0.25	Put the smallest digit, 0, in the ones. Then 2 tenths and 5 hundredths: 0.25.
15	C 0.035	$0.35 \times 100 = 35$, then $35 \div 1000 = 0.035$.
16	E 250	Fill the gap: 0.250 is 250 thousandths.
17	A 125 kg	$0.125 \times 1000 = 125$.
18	C 4.29	4.3 is 4.30. Take 1 hundredth away: 4.29.
19	D 36	Ali gets 40 and Bea gets 4. $40 - 4 = 36$.
20	B 0.362	3 tenths, 6 hundredths (double 3), 2 thousandths (1 less than 3): 0.362.
21	720	Every digit moves two places to the left. The empty ones column gets a 0: 720.
22	305	3 wholes are 300 hundredths. Add the 5 hundredths: 305.
23	64	Do the opposite: $0.064 \times 1000 = 64$.
24	8	Every digit moves three places to the left: 8.
25	125	12 wholes are 120 tenths. Add the 5 tenths: 125.
26	45	$0.45 \times 1000 = 450$, then $\div 10 = 45$.
27	86	Three places left is $\times 1000$: 860. One place right is $\div 10$: 86.

Score: out of 27