

11+ Maths Practice Paper

Year 6 · Advanced

Lesson 1.1: Standard place value and column mechanics

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 4,317,026.

What is the value of the 3?

A 300

B 3,000

C 30,000

D 300,000

E 3,000,000

Answer: D The 3 is in the hundred thousands column, so it is worth 300,000.

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 two million, sixty thousand and five?

- A** 2,060,005 **B** 2,600,005 **C** 2,065,000 **D** 2,006,005 **E** 260,005

2

Look at the number 6,094,312.

What is the value of the 9?

- A** 9,000 **B** 900,000 **C** 90,000 **D** 94,000 **E** 9

3

What is $3,070 \times 1000$?

- A** 307,000 **B** 3,007,000 **C** 30,700,000 **D** 3,700,000 **E** 3,070,000

4

Which is the largest number?

- A** 1,099,999 **B** 1,100,000 **C** 1,010,999 **D** 1,009,999 **E** 999,999

5

What is $8,040,000 \div 1000$?

- A** 8,400 **B** 804 **C** 80,400 **D** 8,040 **E** 840

6

Look at the number 5,050,500.

What is the difference between the value of the first 5 and the value of the last 5?

- A** 5,000,500 **B** 4,999,500 **C** 4,950,000 **D** 5,049,500 **E** 4,500

7

What must be added to 3,456,789 to change the 4 into a 7, without changing any other digit?

- A** 3 **B** 30,000 **C** 700,000 **D** 300,000 **E** 3,000,000

8

Which of these is NOT equal to 45,000?

- A $4,500,000 \div 1000$
- B 450×100
- C $4,500 \times 10$
- D $450,000 \div 10$
- E 45×1000

9

$? \div 100 = 3,080$. What is the missing number?

- A 30,800
- B 380,000
- C 3,080,000
- D 38,000
- E 308,000

10

A number is multiplied by 100, then the answer is divided by 10. The final answer is 6,300.

What was the number?

- A 63
- B 6,300
- C 630
- D 63,000
- E 630,000

11

Which list is in order, largest first?

- A $1,100,000 \cdot 1,010,000 \cdot 1,001,000 \cdot 1,000,100$
- B $1,000,100 \cdot 1,001,000 \cdot 1,010,000 \cdot 1,100,000$
- C $1,010,000 \cdot 1,100,000 \cdot 1,001,000 \cdot 1,000,100$
- D $1,100,000 \cdot 1,001,000 \cdot 1,010,000 \cdot 1,000,100$
- E $1,100,000 \cdot 1,010,000 \cdot 1,000,100 \cdot 1,001,000$

12

I am a 6-digit number. My hundred thousands digit is 4, my thousands digit is 7 and my tens digit is 2. Every other digit is 0.

What number am I?

- A 470,020
- B 407,200
- C 407,020
- D 400,720
- E 4,070,020

13

Use each of the digits 3, 0, 7, 1 and 9 once.

What is the smallest 5-digit number you can make?

- A 10,973 B 13,079 C 30,179 D 10,397 E 10,379
-

14

A factory makes 2,350,000 pencils. It packs them in boxes of 100.

How many boxes does it fill?

- A 2,350 B 23,500 C 235,000 D 235 E 2,350,000
-

15

Mia was asked to divide a number by 10. By mistake she multiplied it by 1000 and got 520,000.

What is the correct answer?

- A 52,000 B 520 C 5,200 D 52 E 520,000
-

16

How many thousands are there altogether in 4,036,000?

- A 4 B 4,036 C 403 D 36 E 40,360
-

17

Every digit of 3,580,000 moves two places to the right.

What is the new number?

- A 358 B 358,000 C 3,580 D 35,800 E 35,800,000
-

18

$6,?45,000 \div 1000 = 6,845$

Which digit is missing?

- A 8 B 5 C 6 D 4 E 9
-

19

Ali writes the number that is 100 times bigger than 7,060. Bea writes the number that is 100 times smaller than 7,060,000.

What is the difference between their two numbers?

- A 645,400 B 0 C 706,000 D 776,600 E 635,400
-

20

A 7-digit number has 3 in the thousands column. Its millions digit is double its thousands digit. Its ones digit is 9, and every other digit is 0.

What is the number?

A 6,030,009 **B** 6,300,009 **C** 6,003,009 **D** 3,006,009 **E** 6,003,090

Part 2: Write your answer

21

Write seven million, thirty-six thousand, four hundred in figures.

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

22

What is 405×1000 ?

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

23

What is $2,090,000 \div 100$?

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

24

$? \times 100 = 34,000$. What is the missing number?

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

25

How many hundreds are there altogether in 1,234,500?

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

26

Add the value of the 4 in 3,417,000 to the value of the 4 in 82,040.

What is the total?

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

27

Use each of the digits 2, 0, 5, 0, 8 and 1 once.

What is the largest 6-digit number you can make that is less than 600,000?

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	A 2,060,005	2 millions, 0 hundred thousands, 6 ten thousands, then zeros until the 5 ones.
2	C 90,000	The 9 is in the ten thousands column, so it is worth 90,000.
3	E 3,070,000	Every digit moves three places to the left, including the 0 already in the hundreds column.
4	B 1,100,000	999,999 has only 6 digits. The rest have 1 million; compare the hundred thousands: only 1,100,000 has a 1 there.
5	D 8,040	Every digit moves three places to the right. The three zeros at the end drop away.
6	B 4,999,500	The first 5 is worth 5,000,000 and the last 5 is worth 500. $5,000,000 - 500 = 4,999,500$.
7	D 300,000	The 4 is in the hundred thousands column. Going from 400,000 to 700,000 means adding 300,000.
8	A $4,500,000 \div 1000$	$4,500,000 \div 1000 = 4,500$. All the others make 45,000.
9	E 308,000	Do the opposite: $3,080 \times 100 = 308,000$.
10	C 630	$\times 100$ then $\div 10$ is the same as $\times 10$ overall. Work backwards: $6,300 \div 10 = 630$.
11	A $1,100,000 \cdot 1,010,000 \cdot 1,001,000 \cdot 1,000,100$	All have 1 million. The second 1 is worth 100,000, then 10,000, then 1,000, then 100.
12	C 407,020	Fill the columns: 4 hundred thousands, 0 ten thousands, 7 thousands, 0 hundreds, 2 tens, 0 ones.
13	E 10,379	A number can't start with 0, so start with the smallest other digit, 1. Then 0, then the rest from smallest up.
14	B 23,500	$2,350,000 \div 100 = 23,500$.
15	D 52	Work back to the number: $520,000 \div 1000 = 520$. Then do the right calculation: $520 \div 10 = 52$.
16	B 4,036	Divide by 1000: $4,036,000 \div 1000 = 4,036$.
17	D 35,800	Moving two places to the right is the same as dividing by 100: 35,800.
18	A 8	Dividing by 1000 moves the digits three places right, so 6,845 came from 6,845,000.
19	E 635,400	Ali writes 706,000. Bea writes 70,600. $706,000 - 70,600 = 635,400$.
20	C 6,003,009	The millions digit is $3 \times 2 = 6$. So 6 millions, 0, 0, 3 thousands, 0, 0, 9 ones.
21	7,036,400	Read it in groups: 7 million, 036 thousand, 400. The zeros hold the hundred thousands, the tens and the ones.

Q	Answer	How to get it
22	405,000	Every digit moves three places to the left: 405,000.
23	20,900	Every digit moves two places to the right: 20,900.
24	340	Do the opposite: $34,000 \div 100 = 340$.
25	12,345	Divide by 100: $1,234,500 \div 100 = 12,345$.
26	400,040	The first 4 is worth 400,000 and the second is worth 40. $400,000 + 40 = 400,040$.
27	582,100	It must start with 5, the biggest digit below 6. Then put the rest in order, largest first: 8, 2, 1, 0, 0.

Score: out of 27