

11+ Maths Practice Paper

Year 5 · Intermediate

Lesson 2.3: Short and long division

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

Work out this division.

$$4 \overline{) 3456}$$

A 846

B 814

C 864

D 868

E 13,824

Answer: C 4 does not go into 3, so carry 3: 34. 4 into 34 is 8 r 2. Carry 2: 25. 4 into 25 is 6 r 1. Carry 1: 16. 4 into 16 is 4. So 864.

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

Now turn over and start Part 1.

Part 1: Multiple choice

1

Work out this division.

$$4 \overline{) 2844}$$

A 711

B 701

C 721

D 71

E 11,376

2

Work out this division.

$$5 \overline{) 1935}$$

A 377

B 387

C 397

D 487

E 9,675

3

Work out this division.

$$9 \overline{) 4077}$$

A 435

B 443

C 503

D 453

E 463

4

What is $23 \div 4$, with the remainder written as a fraction?

A 5.3

B $5\frac{4}{3}$

C $5\frac{3}{4}$

D $6\frac{3}{4}$

E $5\frac{3}{10}$

5

Work out this division.

$$6 \overline{) 3527}$$

- A 587 r 3 B 586 r 11 C 578 r 5 D 588 r 5 E 587 r 5

6

What is $9 \div 4$ as a decimal?

- A 2.25 B 2.1 C 2 r 1 D 2.4 E 2.5

7

150 people are going to a match. Each coach seats 52 people.

How many coaches are needed?

- A 2 B 2 r 46 C 3 D 4 E 46

8

Work out this division.

$$9 \overline{) 7209}$$

- A 81 B 810 C 811 D 800 r 9 E 801

9

Work out this division.

$$12 \overline{) 408}$$

- A 33 B 34 C 36 D 44 E 340

10

What is $35 \div 8$, with the remainder written as a fraction?

- A 4.3 B $4 \frac{8}{3}$ C $3 \frac{3}{8}$ D $4 \frac{3}{8}$ E $4 \frac{3}{10}$

11

Work out this division.

$$\begin{array}{r} 16 \overline{) 672} \end{array}$$

A 42

B 41

C 43

D 32

E 420

12

£38 is shared equally between 4 friends.

How much does each friend get?

A £9.20

B £9 r 2

C £9

D £10

E £9.50

13

A number is divided by 7. The answer is 46 remainder 5.

What is the number?

A 322

B 317

C 327

D 337

E 51

14

Work out this division.

$$\begin{array}{r} 3 \overline{) 6483} \end{array}$$

A 2,061

B 2,161

C 2,261

D 2,160

E 19,449

15

Work out this division.

$$\begin{array}{r} 13 \overline{) 754} \end{array}$$

A 57

B 48

C 59

D 58

E 68

16

A ribbon is 200 cm long.

How many 15 cm pieces can be cut from it?

A 14

B 13

C 13 r 5

D 12

E 5

17

What is $47 \div 5$ as a decimal?

A 9.2

B 9 r 2

C 9.25

D 10.2

E 9.4

18

Work out this division.

$$\begin{array}{r} 21 \overline{) 966} \end{array}$$

A 46

B 45

C 36

D 47

E 56

Part 2: Write your answer

19

Work out this division.

$$\begin{array}{r} 8 \overline{) 5712} \end{array}$$

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

20

Work out this division.

$$\begin{array}{r} 9 \overline{) 3618} \end{array}$$

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

21

Work out this division.

$$\begin{array}{r} 18 \overline{) 792} \end{array}$$

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

22

Work out this division.

$$\begin{array}{r} 23 \overline{) 943} \end{array}$$

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

23

A number is divided by 6. The answer is 125 remainder 4.

What is the number?

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

24

There are 230 pupils in a school. Each minibus seats 16.

How many minibuses are needed to take every pupil?

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 711	4 does not go into 2, so carry 2: 28. 4 into 28 is 7. 4 into 4 is 1. 4 into 4 is 1. So 711.
2	B 387	Carry the 1: 19. 5 into 19 is 3 r 4. Carry 4: 43. 5 into 43 is 8 r 3. Carry 3: 35. 5 into 35 is 7. So 387.
3	D 453	Carry the 4: 40. 9 into 40 is 4 r 4. Carry 4: 47. 9 into 47 is 5 r 2. Carry 2: 27. 9 into 27 is 3. So 453.
4	C $5\frac{3}{4}$	$23 \div 4 = 5$ r 3. The 3 left over is shared between 4, which is $\frac{3}{4}$. So $5\frac{3}{4}$.
5	E 587 r 5	Carry 3: 35. 6 into 35 is 5 r 5. Carry 5: 52, which is 8 r 4. Carry 4: 47, which is 7 r 5. So 587 r 5. Check: $587 \times 6 + 5 = 3,527$.
6	A 2.25	Write 9 as 9.00. 4 into 9 is 2 r 1. Carry 1: 10 tenths, which is 2 r 2. Carry 2: 20 hundredths, which is 5. So 2.25.
7	C 3	$150 \div 52 = 2$ r 46. Two coaches leave 46 people behind, so round up: 3 coaches.
8	E 801	9 does not go into 7, so carry 7: 72, which is 8. 9 into 0 is 0. 9 into 9 is 1. So 801.
9	B 34	12 does not go into 4, so use 40. $12 \times 3 = 36$, so 3 r 4. Carry 4: 48. $12 \times 4 = 48$. So 34.
10	D $4\frac{3}{8}$	$35 \div 8 = 4$ r 3. The 3 left over is shared between 8, which is $\frac{3}{8}$. So $4\frac{3}{8}$.
11	A 42	16 into 67: $16 \times 4 = 64$, remainder 3. Bring down the 2: 32. $16 \times 2 = 32$. So 42.
12	E £9.50	$38 \div 4 = 9$ r 2, but money can be split into pence. Keep dividing: $38.00 \div 4 = 9.50$. So £9.50 each.
13	C 327	Multiply back and add the remainder: $46 \times 7 = 322$, and $322 + 5 = 327$.
14	B 2,161	3 into 6 is 2. 3 into 4 is 1 r 1. Carry 1: 18, which is 6. 3 into 3 is 1. So 2,161.
15	D 58	13 into 75: $13 \times 5 = 65$, remainder 10. Bring down the 4: 104. $13 \times 8 = 104$. So 58.
16	B 13	$200 \div 15 = 13$ r 5. The 5 cm left over is too short for another piece, so round down: 13.
17	E 9.4	$47 \div 5 = 9$ r 2. Keep dividing: 20 tenths $\div 5 = 4$ tenths. So 9.4, not 9.2.
18	A 46	21 into 96: $21 \times 4 = 84$, remainder 12. Bring down the 6: 126. $21 \times 6 = 126$. So 46.
19	714	Carry 5: 57, which is 7 r 1. Carry 1: 11, which is 1 r 3. Carry 3: 32, which is 4. So 714.
20	402	Carry 3: 36, which is 4. 9 into 1 does not go: write 0, carry 1: 18, which is 2. So 402.

Q	Answer	How to get it
21	44	18 into 79: $18 \times 4 = 72$, remainder 7. Bring down the 2: 72. $18 \times 4 = 72$. So 44.
22	41	23 into 94: $23 \times 4 = 92$, remainder 2. Bring down the 3: 23. $23 \times 1 = 23$. So 41.
23	754	$125 \times 6 = 750$, and $750 + 4 = 754$.
24	15	$230 \div 16 = 14 \text{ r } 6$. Fourteen minibuses leave 6 pupils behind, so round up: 15.

Score: out of 24