

11+ Maths Practice Paper

Year 5 · Intermediate

Lesson 2.2: Advanced long multiplication

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 multiplication.

$$\begin{array}{r} 236 \\ \times 4 \\ \hline \\ \hline \end{array}$$

A 924

B 844

C 944

D 948

E 8,124

Answer: C Ones: $6 \times 4 = 24$, carry 2. Tens: $3 \times 4 = 12$, + 2 = 14, carry 1. Hundreds: $2 \times 4 = 8$, + 1 = 9. So 944.

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 multiplication.

$$\begin{array}{r} 312 \\ \times 3 \\ \hline \\ \hline \end{array}$$

A 936

B 926

C 315

D 939

E 836

2

Work out this multiplication.

$$\begin{array}{r} 47 \\ \times 6 \\ \hline \\ \hline \end{array}$$

A 242

B 282

C 482

D 272

E 292

3

Work out this multiplication.

$$\begin{array}{r} 2153 \\ \times 4 \\ \hline \\ \hline \end{array}$$

A 8,402

B 8,622

C 8,512

D 8,612

E 9,612

4

Work out this multiplication.

$$\begin{array}{r} 56 \\ \times 23 \\ \hline \end{array}$$

- A 280 B 1,278 C 1,288 D 1,188 E 1,298

5

Look at this long multiplication.

What number goes in the second row?

$$\begin{array}{r} 147 \\ \times 35 \\ \hline 735 \\ + \boxed{?}\boxed{?}\boxed{?}\boxed{?} \\ \hline 5145 \end{array}$$

- A 4,401 B 4,110 C 4,140 D 1,470 E 4,410

6

Work out this multiplication.

$$\begin{array}{r} 3064 \\ \times 7 \\ \hline \end{array}$$

- A 21,448 B 21,028 C 21,348 D 21,458 E 20,448

7

Which is the best estimate for 392×21 ?

- A 800 B 80,000 C 8,000 D 6,000 E 4,200

8

Work out this multiplication.

$$\begin{array}{r}
 128 \\
 \times 46 \\
 \hline
 \\
 \hline
 \end{array}$$

A 1,280

B 5,788

C 5,878

D 6,888

E 5,888

9

Look at this long multiplication.

What number goes in the first row?

$$\begin{array}{r}
 214 \\
 \times 37 \\
 \hline
 \boxed{?} \boxed{?} \boxed{?} \boxed{?} \\
 + 6420 \\
 \hline
 7918
 \end{array}$$

A 1,488

B 1,498

C 1,478

D 1,598

E 1,398

10

Work out this multiplication.

$$\begin{array}{r}
 4527 \\
 \times 6 \\
 \hline
 \\
 \hline
 \end{array}$$

A 24,022

B 27,062

C 26,162

D 27,162

E 27,172

11

Work out this multiplication.

$$\begin{array}{r} 263 \\ \times 52 \\ \hline \\ \hline \end{array}$$

- A 13,676 B 1,841 C 13,576 D 12,676 E 13,686

12

Ben worked out 132×24 and got 792.

What mistake did Ben make?

- A He forgot to carry
 B He added the two rows wrongly
 C He multiplied by 4 twice
 D He made no mistake
 E He left out the zero placeholder

13

Work out this multiplication.

$$\begin{array}{r} 5083 \\ \times 8 \\ \hline \\ \hline \end{array}$$

- A 40,624 B 40,064 C 40,664 D 41,664 E 40,764

14

Work out this multiplication.

$$\begin{array}{r} 347 \\ \times 29 \\ \hline \\ \hline \end{array}$$

- A 9,963 B 10,063 C 10,163 D 3,817 E 10,073

15

Which calculation has the biggest answer?

A 49×31

B 52×28

C 63×24

D 38×41

E 45×33

16

What is the missing digit?

$$\begin{array}{r}
 2 \boxed{?} 6 \\
 \times \quad 4 \\
 \hline
 1 \ 0 \ 6 \ 4
 \end{array}$$

A 5

B 6

C 7

D 4

E 8

17

Work out this multiplication.

$$\begin{array}{r}
 6 \ 0 \ 9 \\
 \times \quad 3 \ 8 \\
 \hline
 \\
 \hline
 \end{array}$$

A 23,042

B 23,152

C 6,699

D 22,142

E 23,142

18

Work out this multiplication.

$$\begin{array}{r}
 2 \ 4 \ 3 \ 6 \\
 \times \quad 1 \ 5 \\
 \hline
 \\
 \hline
 \end{array}$$

A 36,540

B 14,616

C 36,440

D 35,540

E 36,640

Part 2: Write your answer

19

Work out this multiplication.

$$\begin{array}{r} 678 \\ \times 9 \\ \hline \\ \hline \end{array}$$

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

20

Work out this multiplication.

$$\begin{array}{r} 74 \\ \times 36 \\ \hline \\ \hline \end{array}$$

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

21

Work out this multiplication.

$$\begin{array}{r} 405 \\ \times 27 \\ \hline \\ \hline \end{array}$$

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

22

Work out this multiplication.

$$\begin{array}{r} 3718 \\ \times 6 \\ \hline \\ \hline \end{array}$$

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

23

Work out this multiplication.

$$\begin{array}{r} 156 \\ \times 43 \\ \hline \\ \hline \end{array}$$

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

24

What is the missing digit?

$$\begin{array}{r} 3 \boxed{?} 7 \\ \times 5 \\ \hline 1885 \\ \hline \end{array}$$

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

Answer sheet

11+ Maths Practice Paper · Year 5 · Lesson 2.2: Advanced long multiplication

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 936	No carries. Ones: $2 \times 3 = 6$. Tens: $1 \times 3 = 3$. Hundreds: $3 \times 3 = 9$. So 936.
2	B 282	Ones: $7 \times 6 = 42$. Write 2, carry 4. Tens: $4 \times 6 = 24$, $+ 4 = 28$. So 282.
3	D 8,612	Ones: $3 \times 4 = 12$, carry 1. Tens: $5 \times 4 = 20$, $+ 1 = 21$, carry 2. Hundreds: $1 \times 4 = 4$, $+ 2 = 6$. Thousands: $2 \times 4 = 8$. So 8,612.
4	C 1,288	Row 1: $56 \times 3 = 168$. Row 2: $56 \times 20 = 1,120$. Add: $168 + 1,120 = 1,288$.
5	E 4,410	The second row is 147×30 . Write a 0 placeholder, then $147 \times 3 = 441$: so 4,410. Check: $735 + 4,410 = 5,145$.
6	A 21,448	Ones: $4 \times 7 = 28$, carry 2. Tens: $6 \times 7 = 42$, $+ 2 = 44$, carry 4. Hundreds: $0 \times 7 = 0$, $+ 4 = 4$. Thousands: $3 \times 7 = 21$. So 21,448.
7	C 8,000	392 is about 400 and 21 is about 20. $400 \times 20 = 8,000$. (The real answer is 8,232.)
8	E 5,888	Row 1: $128 \times 6 = 768$. Row 2: $128 \times 40 = 5,120$. Add: $768 + 5,120 = 5,888$.
9	B 1,498	The first row is 214×7 . Ones: $4 \times 7 = 28$, carry 2. Tens: $1 \times 7 = 7$, $+ 2 = 9$. Hundreds: $2 \times 7 = 14$. So 1,498. Check: $1,498 + 6,420 = 7,918$.
10	D 27,162	Ones: $7 \times 6 = 42$, carry 4. Tens: $2 \times 6 = 12$, $+ 4 = 16$, carry 1. Hundreds: $5 \times 6 = 30$, $+ 1 = 31$, carry 3. Thousands: $4 \times 6 = 24$, $+ 3 = 27$. So 27,162.
11	A 13,676	Row 1: $263 \times 2 = 526$. Row 2: $263 \times 50 = 13,150$. Add: $526 + 13,150 = 13,676$.
12	E He left out the zero placeholder	Row 1 is $132 \times 4 = 528$. Row 2 should be $132 \times 20 = 2,640$, but Ben wrote 264, with no 0. $528 + 264 = 792$. The right answer is $528 + 2,640 = 3,168$.
13	C 40,664	Ones: $3 \times 8 = 24$, carry 2. Tens: $8 \times 8 = 64$, $+ 2 = 66$, carry 6. Hundreds: $0 \times 8 = 0$, $+ 6 = 6$. Thousands: $5 \times 8 = 40$. So 40,664.
14	B 10,063	Row 1: $347 \times 9 = 3,123$. Row 2: $347 \times 20 = 6,940$. Add: $3,123 + 6,940 = 10,063$.
15	D 38×41	$38 \times 41 = 1,558$. The others make 1,519, 1,456, 1,512 and 1,485.
16	B 6	Ones: $6 \times 4 = 24$, carry 2. Tens: $? \times 4 + 2$ must end in 6, so $? \times 4$ ends in 4: $? = 6$ ($6 \times 4 = 24$, $+ 2 = 26$). Check: $266 \times 4 = 1,064$.
17	E 23,142	Row 1: $609 \times 8 = 4,872$. Row 2: $609 \times 30 = 18,270$. Add: $4,872 + 18,270 = 23,142$.
18	A 36,540	Row 1: $2,436 \times 5 = 12,180$. Row 2: $2,436 \times 10 = 24,360$. Add: $12,180 + 24,360 = 36,540$.
19	6,102	Ones: $8 \times 9 = 72$, carry 7. Tens: $7 \times 9 = 63$, $+ 7 = 70$, carry 7. Hundreds: $6 \times 9 = 54$, $+ 7 = 61$. So 6,102.
20	2,664	Row 1: $74 \times 6 = 444$. Row 2: $74 \times 30 = 2,220$. Add: $444 + 2,220 = 2,664$.
21	10,935	Row 1: $405 \times 7 = 2,835$. Row 2: $405 \times 20 = 8,100$. Add: $2,835 + 8,100 = 10,935$.

Q	Answer	How to get it
22	22,308	Ones: $8 \times 6 = 48$, carry 4. Tens: $1 \times 6 = 6$, $+ 4 = 10$, carry 1. Hundreds: $7 \times 6 = 42$, $+ 1 = 43$, carry 4. Thousands: $3 \times 6 = 18$, $+ 4 = 22$. So 22,308.
23	6,708	Row 1: $156 \times 3 = 468$. Row 2: $156 \times 40 = 6,240$. Add: $468 + 6,240 = 6,708$.
24	7	Ones: $7 \times 5 = 35$, carry 3. Hundreds: $3 \times 5 = 15$, but the answer starts 18, so 3 is carried from the tens. So the tens make 38: $? \times 5 + 3 = 38$, $? \times 5 = 35$ and $? = 7$. Check: $377 \times 5 = 1,885$.

Score: out of 24