

11+ Maths Practice Paper

Year 5 · Intermediate

Lesson 3.6: Decimal operations

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 addition.

$$\begin{array}{r} 4.56 \\ + 3.7 \\ \hline \\ \hline \end{array}$$

A 4.93

B 7.26

C 8.62

D 8.26

E 82.6

Answer: D Line up the points and write 3.7 as 3.70. $4.56 + 3.70 = 8.26$.

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

Now turn over and start Part 1.

Part 1: Multiple choice

1

Work out this addition.

$$\begin{array}{r} 12.5 \\ + 3.47 \\ \hline \\ \hline \end{array}$$

A 15.97

B 12.82

C 4.72

D 15.79

E 16.97

2

Work out this subtraction.

$$\begin{array}{r} 8.3 \\ - 4.76 \\ \hline \\ \hline \end{array}$$

A 4.54

B 3.54

C 3.46

D 4.46

E 3.64

3

Work out this subtraction.

$$\begin{array}{r} 6 \\ - 2.35 \\ \hline \\ \hline \end{array}$$

A 4.35

B 3.65

C 3.75

D 4.65

E 2.65

4

What is 2.45×3 ?

A 73.5

B 6.35

C 0.735

D 7.35

E 7.25

5

What is 1.6×7 ?

A 11.2

B 1.12

C 7.42

D 112

E 10.2

6

Work out this division.

$$3 \overline{) 7.56}$$

A 2.52

B 25.2

C 2.25

D 0.252

E 2.5

7

Drinks cost £1.35 each. Leo buys 3 drinks.

How much do they cost altogether?

A £3.95

B £40.50

C £4.05

D £3.05

E £4.15

8

Work out this division.

$$5 \overline{) 8.45}$$

A 16.9

B 1.96

C 1.49

D 0.169

E 1.69

9

Nina buys a cap for £3.65. She pays with a £10 note.

How much change does she get?

$$\begin{array}{r} 10.00 \\ - 3.65 \\ \hline \end{array}$$

A £7.65

B £6.45

C £7.35

D £6.25

E £6.35

10

Work out this addition.

$$\begin{array}{r}
 4.07 \\
 2.9 \\
 + 0.35 \\
 \hline
 \\
 \hline
 \end{array}$$

A 6.48

B 7.22

C 7.31

D 7.32

E 4.69

11

Which calculation gives the same answer as 3.4×6 ?A $34 \times 6 \div 10$ B $34 \times 6 \div 100$ C $3 \times 6 + 4$ D $34 \times 6 \times 10$ E $3.4 + 6$

12

Work out this division.

$$4 \overline{) 2.16}$$

A 5.4

B 0.54

C 0.45

D 1.54

E 0.054

13

What is 0.25×4 ?

A 0.1

B 100

C 10

D 0.29

E 1

14

A piece of wood 3.2 metres long is cut into 4 equal pieces.

How long is each piece, in metres?

A 8

B 0.08

C 0.8

D 1.2

E 0.6

15

Work out this subtraction.

$$\begin{array}{r} 15.2 \\ - 7.48 \\ \hline \\ \hline \end{array}$$

A 8.32

B 7.72

C 7.82

D 8.72

E 7.28

16

What is the missing digit?

$$\begin{array}{r} 5.\boxed{?}7 \\ + 2.86 \\ \hline 8.53 \\ \hline \end{array}$$

A 5

B 7

C 6

D 3

E 8

17

A bag of apples costs £2.40. A bag of pears costs £1.85.

How much more do the apples cost than the pears?

$$\begin{array}{r} 2.40 \\ - 1.85 \\ \hline \\ \hline \end{array}$$

A £0.65

B £4.25

C £0.55

D £1.45

E £0.45

18

Which is the best estimate for 4.89×6 ?

A 3

B 24

C 300

D 30

E 2.4

Part 2: Write your answer

19

What is $3.75 + 1.25$?

$$\begin{array}{r} 3.75 \\ + 1.25 \\ \hline \\ \hline \end{array}$$

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

20

What is 1.25×8 ?

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

21

What is 4.5×4 ?

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

22

What is the missing digit?

$$\begin{array}{r} 7.\boxed{?}5 \\ - 3.48 \\ \hline 4.27 \\ \hline \end{array}$$

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

23

A ticket costs £2.50.

How much do 6 tickets cost, in pounds?

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

24

What is $0.6 \times 5 + 2.5 \times 2$?

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

Answer sheet

11+ Maths Practice Paper · Year 5 · Lesson 3.6: Decimal operations

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		22	
20		23	
21		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 15.97	Line up the points and write 12.5 as 12.50. $12.50 + 3.47 = 15.97$.
2	B 3.54	Write 8.3 as 8.30 and exchange: $8.30 - 4.76 = 3.54$.
3	B 3.65	Write 6 as 6.00 and exchange across both zeros: $6.00 - 2.35 = 3.65$.
4	D 7.35	$245 \times 3 = 735$. 2.45 has 2 decimal places, so the answer is 7.35.
5	A 11.2	$16 \times 7 = 112$, and 1 decimal place gives 11.2.
6	A 2.52	Bus stop, with the point straight up: $7 \div 3 = 2$ r 1, then $15 \div 3 = 5$, then $6 \div 3 = 2$. So 2.52.
7	C £4.05	$135 \times 3 = 405$, and 2 decimal places: £4.05.
8	E 1.69	Point straight up. $8 \div 5 = 1$ r 3, $34 \div 5 = 6$ r 4, $45 \div 5 = 9$. So 1.69.
9	E £6.35	Write £10 as £10.00 and exchange: $£10.00 - £3.65 = £6.35$.
10	D 7.32	Line up all three points: $4.07 + 2.90 + 0.35 = 7.32$.
11	A $34 \times 6 \div 10$	3.4×6 is 34×6 with the point put back 1 place: $34 \times 6 \div 10 = 20.4$.
12	B 0.54	$2 \div 4 = 0$ r 2, so write 0 before the point. $21 \div 4 = 5$ r 1, $16 \div 4 = 4$. So 0.54.
13	E 1	$25 \times 4 = 100$, and 2 decimal places give 1.00, which is 1.
14	C 0.8	$3.2 \div 4$: $3 \div 4 = 0$ r 3, then $32 \div 4 = 8$. So 0.8 metres.
15	B 7.72	Write 15.2 as 15.20 and exchange: $15.20 - 7.48 = 7.72$.
16	C 6	Hundredths: $7 + 6 = 13$, carry 1. Tenths: $? + 8 + 1$ ends in 5, so $? = 6$. Check: $5.67 + 2.86 = 8.53$.
17	C £0.55	Write £2.40 and £1.85 with the points in a line and subtract: £0.55.
18	D 30	4.89 is about 5, and $5 \times 6 = 30$.
19	5	Hundredths $5 + 5 = 10$, tenths $7 + 2 + 1 = 10$, ones $3 + 1 + 1 = 5$. So 5.00, which is 5.
20	10	$125 \times 8 = 1000$, and 2 decimal places give 10.00, which is 10.
21	18	$45 \times 4 = 180$, and 1 decimal place gives 18.0, which is 18.
22	7	Check with the inverse: $4.27 + 3.48 = 7.75$, so the missing digit is 7.
23	15	$£2.50 \times 6$: $250 \times 6 = 1500$, and 2 decimal places give £15.00, which is £15.
24	8	Multiply first: $0.6 \times 5 = 3$ and $2.5 \times 2 = 5$. Then $3 + 5 = 8$.

Score: out of 24