

11+ Maths Practice Paper

Year 5 · Intermediate

Lesson 2.5: Word problems and multi-step logic

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

A school has 324 pupils. 158 of them are girls.

How many pupils are boys?

A 482

B 176

C 166

D 156

E 266

Answer: C The whole is 324 and one part is 158, so the other part is $324 - 158 = 166$.

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

Now turn over and start Part 1.

Part 1: Multiple choice

1

A farmer plants 15 rows of trees with 24 trees in each row.

How many trees does she plant?

- A** 360 **B** 39 **C** 300 **D** 345 **E** 384

2

A rope 96 m long is cut into 8 equal pieces.

Which calculation tells you how long each piece is?

- A** 96×8 **B** $96 \div 8$ **C** $96 - 8$ **D** $8 \div 96$ **E** $96 + 8$

3

Ava has 38 more books than Noah. Ava has 125 books.

How many books do they have altogether?

- A** 163 **B** 87 **C** 288 **D** 212 **E** 250

4

Tickets cost £7 for adults and £4 for children.

How much do 2 adults and 3 children pay altogether?

- A** £11 **B** £33 **C** £26 **D** £21 **E** £22

5

I think of a number. I double it, then subtract 9. The answer is 45.

What was my number?

- A** 18 **B** 81 **C** 99 **D** 36 **E** 27

6

A baker makes 144 rolls. She sells 96 of them and packs the rest into bags of 6.

How many bags does she fill?

- A** 8 **B** 48 **C** 40 **D** 24 **E** 16

7

A car park has 4 floors with 65 spaces on each floor. 187 cars are parked there.

How many spaces are empty?

- A 260 B 447 C 73 D 83 E 63
-

8

Leo saves £12 a week for 9 weeks. Then he buys a bike for £85.

How much money does he have left?

- A £108 B £97 C £33 D £13 E £23
-

9

Two numbers add up to 50. One number is 12 more than the other.

What is the smaller number?

- A 38 B 19 C 31 D 25 E 12
-

10

A box holds 24 pencils. A school orders 15 boxes and gives out 290 pencils.

How many pencils are left?

- A 650 B 360 C 80 D 70 E 50
-

11

Mum is 4 times as old as Kai. Mum is 36.

How old was Kai 3 years ago?

- A 6 B 9 C 33 D 12 E 141
-

12

Ella has 3 times as many cards as Finn. Together they have 48 cards.

How many cards does Finn have?

- A 16 B 36 C 24 D 45 E 12
-

13

A sports hall has 18 rows of 25 seats. 375 seats are taken.

How many seats are empty?

- A 825 B 450 C 75 D 85 E 65

14

I think of a number. I divide it by 3, then add 8. The answer is 20.

What was my number?

- A** 4 **B** 36 **C** 84 **D** 12 **E** 28
-

15

A plant is 34 cm tall. It grows 5 cm every week.

How tall is it after 6 weeks?

- A** 39 cm **B** 45 cm **C** 204 cm **D** 64 cm **E** 74 cm
-

16

Grace buys 3 pizzas at £8 each and 4 drinks at £2 each. She shares the total cost equally between 4 people.

How much does each person pay?

- A** £32 **B** £8 **C** £11 **D** £10 **E** £6
-

17

A train has 8 carriages with 64 seats in each. 389 seats are taken.

How many seats are empty?

- A** 512 **B** 901 **C** 133 **D** 113 **E** 123
-

18

Sam has 28 more stamps than Jo. Together they have 100 stamps.

How many stamps does Sam have?

- A** 64 **B** 36 **C** 72 **D** 50 **E** 78

Part 2: Write your answer

19

A school trip costs £15 for each child. 28 children go.

How much does the trip cost altogether, in pounds?

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

20

A shop had 500 T-shirts. It sold 186 in May and 147 in June.

How many T-shirts are left?

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

21

Pens come in packs of 8. A teacher needs 168 pens.

How many packs does she buy?

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

22

I think of a number. I multiply it by 5, then subtract 12. The answer is 63.

What was my number?

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

23

Two numbers add up to 90. One number is 24 more than the other.

What is the bigger number?

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

24

Tom has 4 times as many marbles as Jack. Tom has 45 more marbles than Jack.

How many marbles does Jack have?

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 360	15 equal rows of 24: $15 \times 24 = 360$.
2	B $96 \div 8$	Cutting into equal pieces is sharing: $96 \div 8 = 12$ m each.
3	D 212	Noah has $125 - 38 = 87$ books. Together: $125 + 87 = 212$.
4	C £26	Adults: $2 \times £7 = £14$. Children: $3 \times £4 = £12$. Total: $£14 + £12 = £26$.
5	E 27	Undo $- 9$ first: $45 + 9 = 54$. Then undo doubling: $54 \div 2 = 27$. Check: $27 \times 2 - 9 = 45$.
6	A 8	Rolls left: $144 - 96 = 48$. Bags: $48 \div 6 = 8$.
7	C 73	Spaces: $4 \times 65 = 260$. Empty: $260 - 187 = 73$.
8	E £23	He saves $9 \times £12 = £108$. Then $£108 - £85 = £23$.
9	B 19	Take away the difference: $50 - 12 = 38$. That is two equal smaller numbers, so the smaller number is $38 \div 2 = 19$. (The other is 31.)
10	D 70	Pencils: $15 \times 24 = 360$. Left: $360 - 290 = 70$.
11	A 6	Kai is $36 \div 4 = 9$ now. Three years ago he was $9 - 3 = 6$.
12	E 12	Draw 1 box for Finn and 3 boxes for Ella: 4 equal boxes make 48. One box is $48 \div 4 = 12$, so Finn has 12.
13	C 75	Seats: $18 \times 25 = 450$. Empty: $450 - 375 = 75$.
14	B 36	Undo $+ 8$ first: $20 - 8 = 12$. Then undo $\div 3$: $12 \times 3 = 36$. Check: $36 \div 3 + 8 = 20$.
15	D 64 cm	It grows $6 \times 5 = 30$ cm. Then $34 + 30 = 64$ cm.
16	B £8	Pizzas: $3 \times £8 = £24$. Drinks: $4 \times £2 = £8$. Total: £32. Each pays $£32 \div 4 = £8$.
17	E 123	Seats: $8 \times 64 = 512$. Empty: $512 - 389 = 123$.
18	A 64	Take away the difference: $100 - 28 = 72$, which is two of Jo's amounts. Jo has $72 \div 2 = 36$, so Sam has $36 + 28 = 64$.
19	420	$28 \times £15 = £420$.
20	167	Sold: $186 + 147 = 333$. Left: $500 - 333 = 167$.
21	21	How many groups of 8 make 168? $168 \div 8 = 21$ packs.
22	15	Undo $- 12$ first: $63 + 12 = 75$. Then undo $\times 5$: $75 \div 5 = 15$.
23	57	$90 - 24 = 66$, so the smaller number is $66 \div 2 = 33$. The bigger number is $33 + 24 = 57$.
24	15	Jack is 1 box and Tom is 4 boxes, so Tom has 3 more boxes. Those 3 boxes are 45, so one box is $45 \div 3 = 15$.

Score: out of 24