

11+ Maths Practice Paper

Year 5 · Intermediate

Lesson 3.5: Fractions of amounts

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

What is $\frac{3}{5}$ of 35?

A 7

B 14

C 21

D 28

E 105

Answer: C One fifth: $35 \div 5 = 7$. Three fifths: $7 \times 3 = 21$.

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

Now turn over and start Part 1.

Part 1: Multiple choice

1

What is $\frac{5}{8}$ of 48?

- A 6 B 40 C 30 D 35 E 18

2

What is $\frac{4}{9}$ of 63?

- A 7 B 36 C 32 D 35 E 28

3

What is $\frac{3}{4}$ of £36?

- A £27 B £9 C £48 D £33 E £12

4

What is $\frac{2}{5}$ of £1?

- A 20p B 25p C 2p D 40p E 60p

5

How many minutes are in $\frac{5}{6}$ of an hour?

- A 10 minutes B 50 minutes C 83 minutes D 55 minutes E 60 minutes

6

There are 32 pupils in a class. $\frac{3}{8}$ of them have a dog.

How many pupils do not have a dog?

- A 12 B 4 C 24 D 29 E 20

7

$\frac{1}{7}$ of a number is 9.

What is the number?

- A 16 B 2 C 63 D 56 E 72

8

A bike costs £120. In a sale, the price goes down by $\frac{1}{4}$.

What is the sale price?

- A** £90 **B** £30 **C** £96 **D** £116 **E** £100
-

9

What is $\frac{7}{10}$ of 90?

- A** 9 **B** 70 **C** 81 **D** 63 **E** 27
-

10

How many minutes are in $\frac{3}{4}$ of 2 hours?

- A** 45 minutes **B** 90 minutes **C** 150 minutes **D** 120 minutes **E** 60 minutes
-

11

$\frac{2}{3}$ of a number is 18.

What is the number?

- A** 27 **B** 12 **C** 54 **D** 9 **E** 36
-

12

Which of these is the largest?

- A** $\frac{1}{2}$ of 40 **B** $\frac{2}{3}$ of 27 **C** $\frac{3}{4}$ of 24 **D** $\frac{1}{4}$ of 60 **E** $\frac{3}{5}$ of 35
-

13

Ali has 45 marbles. He gives $\frac{2}{9}$ of them to Ben and $\frac{1}{3}$ of them to Sam.

How many marbles does Ali have left?

- A** 25 **B** 35 **C** 20 **D** 30 **E** 10
-

14

What is $\frac{3}{10}$ of £1?

- A** 3p **B** 70p **C** 33p **D** 30p **E** 13p
-

15

A tank holds 80 litres when it is full. It is $\frac{5}{8}$ full.

How many more litres are needed to fill it?

- A** 50 **B** 30 **C** 10 **D** 40 **E** 25

16

What is $\frac{11}{12}$ of 84?

A 7

B 91

C 66

D 70

E 77

17

A book has 120 pages. Sam reads $\frac{1}{4}$ of the book on Monday and $\frac{1}{3}$ of it on Tuesday.

How many pages has he read?

A 70

B 50

C 80

D 40

E 30

18

$\frac{3}{8}$ of a number is 21.

What is the number?

A 63

B 7

C 56

D 64

E 48

Part 2: Write your answer

19

What is $\frac{4}{7}$ of 56?

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

20

What is $\frac{5}{12}$ of 96?

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

21

How many minutes are in $\frac{7}{10}$ of an hour?

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

22

$\frac{1}{9}$ of a number is 6.

What is the number?

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

23

Jo has £45. She spends $\frac{2}{5}$ of it.

How many pounds does she have left?

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

24

$\frac{4}{5}$ of a number is 48.

What is the number?

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	C 30	$48 \div 8 = 6$, and $6 \times 5 = 30$.
2	E 28	$63 \div 9 = 7$, and $7 \times 4 = 28$.
3	A £27	$£36 \div 4 = £9$, and $£9 \times 3 = £27$.
4	D 40p	$£1 = 100\text{p}$. $100 \div 5 = 20\text{p}$, and $20\text{p} \times 2 = 40\text{p}$.
5	B 50 minutes	$60 \div 6 = 10$, and $10 \times 5 = 50$ minutes.
6	E 20	$\frac{3}{4}$ of 32 = 24 have a dog. $32 - 24 = 8$ do not.
7	C 63	One seventh is 9, so seven sevenths are $9 \times 7 = 63$.
8	A £90	$\frac{1}{4}$ of £120 = £30. $£120 - £30 = £90$.
9	D 63	$90 \div 10 = 9$, and $9 \times 7 = 63$.
10	B 90 minutes	2 hours = 120 minutes. $120 \div 4 = 30$, and $30 \times 3 = 90$ minutes.
11	A 27	Two thirds are 18, so one third is $18 \div 2 = 9$. Three thirds: $9 \times 3 = 27$.
12	E $\frac{3}{5}$ of 35	They are 20, 18, 18, 15 and 21. $\frac{3}{5}$ of 35 = 21 is the largest.
13	C 20	$\frac{2}{5}$ of 45 = 18 and $\frac{1}{3}$ of 45 = 15. He gives away 25, so $45 - 25 = 20$ are left.
14	D 30p	$100\text{p} \div 10 = 10\text{p}$, and $10\text{p} \times 3 = 30\text{p}$.
15	B 30	$\frac{5}{8}$ of 80 = 50 litres are in it. $80 - 50 = 30$ more litres.
16	E 77	$84 \div 12 = 7$, and $7 \times 11 = 77$.
17	A 70	$\frac{1}{4}$ of 120 = 30 and $\frac{1}{3}$ of 120 = 40. $30 + 40 = 70$ pages.
18	C 56	3 parts are 21, so one part is $21 \div 3 = 7$. The whole is 8 parts: $7 \times 8 = 56$.
19	32	$56 \div 7 = 8$, and $8 \times 4 = 32$.
20	40	$96 \div 12 = 8$, and $8 \times 5 = 40$.
21	42	$60 \div 10 = 6$, and $6 \times 7 = 42$ minutes.
22	54	One ninth is 6, so nine ninths are $6 \times 9 = 54$.
23	27	$\frac{2}{5}$ of £45 = £18 is spent. $£45 - £18 = £27$.
24	60	4 parts are 48, so one part is 12. The whole is 5 parts: $12 \times 5 = 60$.

Score: out of 24