

11+ Maths Practice Paper

Year 6 · Advanced

Lesson 3.7: Percentage of amounts

Read this with your child:

1. This paper has **27 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: **35 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 12.5% of 48?

A 6

B 12

C 4.8

D 3

E 24

Answer: A 25% of 48 is 12, and 12.5% is half of that: 6.

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

Now turn over and start Part 1.

Part 1: Multiple choice

1

What is 99% of 400?

A 399

B 4

C 360

D 396

E 395

2

What is 17.5% of 40?

A 6

B 7

C 4

D 8

E 3

3

What is 8% of 50?

A 42

B 8

C 58

D 40

E 4

4

What is 2.5% of 120?

A 3

B 6

C 12

D 48

E 30

5

What is 37.5% of 64?

A 16

B 8

C 24

D 32

E 20

6

What is 16% of 25?

A 9

B 4

C 41

D 1.6

E 6.25

7

What is 17.5% of £80?

A £12

B £16

C £8

D £14

E £10

8

Which is larger: 30% of 70 or 70% of 30?

- A They are the same
- B 30% of 70, by 4
- C 70% of 30, by 4
- D 30% of 70, by 40
- E 70% of 30, by 40

9

What is 15% of £26?

- A £2.60
- B £3.09
- C £1.30
- D £39.00
- E £3.90

10

What is 98% of 250?

- A 248
- B 5
- C 245
- D 225
- E 247.5

11

What is 12.5% of £72?

- A £9.00
- B £18.00
- C £36.00
- D £7.20
- E £4.50

12

What is 4% of 75?

- A 71
- B 30
- C 7.5
- D 79
- E 3

13

What is 50% of 20% of 300?

- A 60
- B 30
- C 210
- D 150
- E 3

14

Amy gets 15% of £60. Ben gets 20% of £40.

How much more does Amy get than Ben?

- A £17
- B £9
- C £8
- D £1
- E £5

15

What is 62.5% of 160?

- A** 80 **B** 20 **C** 100 **D** 120 **E** 60
-

16

What is 24% of 25?

- A** 1 **B** 49 **C** 2.4 **D** 60 **E** 6
-

17

Which of these is not equal to 12?

- A** 5% of 200 **B** 50% of 24 **C** 25% of 48 **D** 10% of 120 **E** 1% of 1200
-

18

A school has 640 pupils. 17.5% of them walk to school and 12.5% come by bus.
The rest come by car.

How many pupils come by car?

- A** 192 **B** 112 **C** 448 **D** 80 **E** 528
-

19

What is 7.5% of £60?

- A** £4.05 **B** £4.50 **C** £6.00 **D** £3.00 **E** £45.00
-

20

What is 35% of £4.80?

- A** £1.44 **B** £0.24 **C** £1.92 **D** £1.68 **E** £16.80

Part 2: Write your answer

21

What is 99% of 700?

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

22

What is 17.5% of 200?

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

23

What is 12.5% of 96?

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

24

What is 18% of 50?

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

25

What is 2.5% of 280?

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

26

What is 37.5% of 240?

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

27

A shop has 800 pens. 45% of them are blue, 17.5% are black and the rest are red.

How many pens are red?

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	☐
19	A	☐	B	☐	C	☐	D	☐	E	☐
20	A	☐	B	☐	C	☐	D	☐	E	☐

Part 2: Write your answer, one digit in each box

21			
22			
23			
24			
25			
26			
27			

Answers

For a parent to mark with. One mark for each question: the paper is out of 27. Talk through any your child got wrong, using the explanation.

Q	Answer	How to get it
1	D 396	1% of 400 is 4. 99% is the whole take away 1%: $400 - 4 = 396$.
2	B 7	10% is 4, 5% is 2 and 2.5% is 1. $4 + 2 + 1 = 7$.
3	E 4	Swap it round: 8% of 50 = 50% of 8, which is half of 8: 4.
4	A 3	10% of 120 is 12, 5% is 6, and 2.5% is half of that: 3.
5	C 24	25% of 64 is 16 and 12.5% is 8. $16 + 8 = 24$.
6	B 4	Swap it round: 16% of 25 = 25% of 16, which is a quarter of 16: 4.
7	D £14	10% is £8, 5% is £4 and 2.5% is £2. $£8 + £4 + £2 = £14$.
8	A They are the same	Swapping the numbers round never changes the answer. Both are 21.
9	E £3.90	10% is £2.60 and 5% is £1.30. $£2.60 + £1.30 = £3.90$.
10	C 245	1% of 250 is 2.5, so 2% is 5. $250 - 5 = 245$.
11	A £9.00	25% of £72 is £18, and 12.5% is half of that: £9.
12	E 3	Swap it round: 4% of 75 = 75% of 4. 25% of 4 is 1, so 75% is 3.
13	B 30	Work from the right: 20% of 300 is 60, and 50% of 60 is 30.
14	D £1	Amy gets £9 and Ben gets £8. $£9 - £8 = £1$.
15	C 100	50% of 160 is 80 and 12.5% is 20. $80 + 20 = 100$.
16	E 6	Swap it round: 24% of 25 = 25% of 24, which is a quarter of 24: 6.
17	A 5% of 200	5% of 200 is 10. All the others are 12.
18	C 448	30% walk or come by bus, so 70% come by car: $64 \times 7 = 448$.
19	B £4.50	10% of £60 is £6, 5% is £3 and 2.5% is £1.50. $£3 + £1.50 = £4.50$.
20	D £1.68	10% is £0.48, so 30% is £1.44. 5% is £0.24. $£1.44 + £0.24 = £1.68$.
21	693	1% of 700 is 7. $700 - 7 = 693$.
22	35	10% is 20, 5% is 10 and 2.5% is 5. $20 + 10 + 5 = 35$.
23	12	25% of 96 is 24, and 12.5% is half of that: 12.
24	9	Swap it round: 18% of 50 = 50% of 18, which is 9.
25	7	10% of 280 is 28, 5% is 14, and 2.5% is half of that: 7.
26	90	25% of 240 is 60 and 12.5% is 30. $60 + 30 = 90$.
27	300	37.5% are red. 25% of 800 is 200 and 12.5% is 100: 300.

Score: out of 27