

11+ Maths Practice Paper

Year 4 · Foundation

Lesson 3.8: Percentage changes

Read this with your child:

1. This paper has **20 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: **25 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

Increase 30 by 10%.

A 40

B 33

C 27

D 3

E 31

Answer: B 10% of 30 is 3. Add it on: $30 + 3 = 33$.

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

Now turn over and start Part 1.

Part 1: Multiple choice

1

Which of these means that a price goes down?

- A a 10% rise B up 10% C 10% off D 10% more E 10% extra

2

Increase 50 by 10%.

- A 60 B 45 C 5 D 51 E 55

3

Decrease 40 by 50%.

- A 60 B 20 C 30 D 10 E 39

4

A book costs £20. In a sale it has 10% off.

What is the sale price?

- A £18 B £22 C £10 D £2 E £19

5

A shop takes 30% off every price.

What percentage of the old price do you pay?

- A 30% B 130% C 60% D 70% E 100%

6

Decrease 80 by 10%.

- A 70 B 72 C 88 D 8 E 78

7

Increase £60 by 50%.

- A £30 B £110 C £120 D £65 E £90

8

A plant is 20 cm tall. It grows by 50%.

How tall is the plant now?

- A** 70 cm **B** 10 cm **C** 30 cm **D** 40 cm **E** 25 cm
-

9

Decrease 90 by 20%.

- A** 72 **B** 18 **C** 70 **D** 108 **E** 81
-

10

Increase 40 by 25%.

- A** 65 **B** 10 **C** 30 **D** 50 **E** 45
-

11

A coat costs £70. In a sale it has 30% off.

How much money comes off the price?

- A** £49 **B** £30 **C** £21 **D** £40 **E** £7
-

12

A game costs £80. In a sale it has 25% off.

What is the sale price?

- A** £20 **B** £55 **C** £100 **D** £75 **E** £60
-

13

50% of a number is 14. What is the number?

- A** 7 **B** 28 **C** 64 **D** 14 **E** 24
-

14

Tom has 40 stickers. He gets 20% more.

How many stickers does Tom have now?

- A** 60 **B** 8 **C** 32 **D** 48 **E** 42
-

15

Which of these is the cheapest?

- A £40 with 25% off
- B £50 with 10% off
- C £60 with 20% off
- D £80 with 50% off
- E £70 with 30% off

Part 2: Write your answer

16

Increase 70 by 10%.

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

17

Decrease 60 by 50%.

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

18

A bike costs £200. In a sale it has 10% off.

What is the sale price, in pounds?

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

19

Increase 80 by 30%.

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

20

10% of a number is 9. What is the number?

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

Answer sheet

11+ Maths Practice Paper · Year 4 · Lesson 3.8: Percentage changes

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 ☐

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

16			
17			
18			
19			
20			

Answers

For a parent to mark with. One mark for each question: the paper is out of 20. Talk through any your child got wrong, using the explanation.

Q	Answer	How to get it
1	C 10% off	"Off" means taken away, so the price goes down.
2	E 55	10% of 50 is 5. Add it on: $50 + 5 = 55$.
3	B 20	50% of 40 is half of 40, which is 20, and $40 - 20 = 20$.
4	A £18	10% of £20 is £2. Take it off: $£20 - £2 = £18$.
5	D 70%	The old price is 100%. $100\% - 30\% = 70\%$.
6	B 72	10% of 80 is 8. Take it away: $80 - 8 = 72$.
7	E £90	50% of £60 is £30. Add it on: $£60 + £30 = £90$.
8	C 30 cm	50% of 20 cm is 10 cm. Add it on: $20 + 10 = 30$ cm.
9	A 72	10% of 90 is 9, so 20% is 18. Take it away: $90 - 18 = 72$.
10	D 50	25% of 40 is a quarter of 40, which is 10, and $40 + 10 = 50$.
11	C £21	10% of £70 is £7, so 30% is $£7 \times 3 = £21$.
12	E £60	25% of £80 is £20. Take it off: $£80 - £20 = £60$.
13	B 28	50% is half. If half of the number is 14, the number is $14 \times 2 = 28$.
14	D 48	10% of 40 is 4, so 20% is 8, and $40 + 8 = 48$.
15	A £40 with 25% off	£40 with 25% off costs £30. The others cost £45, £48, £40 and £49.
16	77	10% of 70 is 7, and $70 + 7 = 77$.
17	30	50% of 60 is 30, and $60 - 30 = 30$.
18	180	10% of £200 is £20, and $£200 - £20 = £180$.
19	104	10% of 80 is 8, so 30% is 24, and $80 + 24 = 104$.
20	90	10% is one tenth. The whole number is $9 \times 10 = 90$.

Score: out of 20