

11+ Maths Practice Paper

Year 5 · Intermediate

Lesson 3.9: FDP conversions

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

Write $\frac{7}{20}$ as a percentage.

A 7.2%

B 35%

C 27%

D 70%

E 3.5%

Answer: B $20 \times 5 = 100$, so $\frac{7}{20} = \frac{35}{100} = 35\%$.

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

Now turn over and start Part 1.

Part 1: Multiple choice

1

Write $\frac{3}{25}$ as a percentage.

- A 3.25% B 75% C 32% D 12% E 28%

2

Write 0.04 as a percentage.

- A 4% B 40% C 0.4% D 400% E 14%

3

Write 45% as a fraction in its simplest form.

- A $\frac{4}{5}$ B $\frac{1}{45}$ C $\frac{9}{20}$ D $\frac{9}{10}$ E $\frac{5}{9}$

4

Mia scores 16 out of 20 in a test.

What percentage is that?

- A 16% B 20% C 64% D 32% E 80%

5

Write $\frac{11}{50}$ as a decimal.

- A 0.11 B 0.22 C 0.115 D 2.2 E 0.5

6

Write 0.3 as a fraction.

- A $\frac{1}{3}$ B $\frac{3}{100}$ C $\frac{3}{10}$ D $\frac{1}{30}$ E $\frac{13}{10}$

7

Write 2% as a decimal.

- A 0.02 B 0.2 C 20 D 0.002 E 0.12

8

Write 8% as a fraction in its simplest form.

A $\frac{4}{5}$

B $\frac{1}{8}$

C $\frac{2}{5}$

D $\frac{2}{25}$

E $\frac{8}{25}$

9

A class has 25 children. 9 of them walk to school.

What percentage of the class walk to school?

A 9%

B 25%

C 34%

D 16%

E 36%

10

Which of these is the smallest?

A 0.4

B $\frac{6}{25}$

C $\frac{3}{10}$

D 35%

E 0.32

11

Write $\frac{17}{25}$ as a decimal.

A 0.68

B 0.17

C 6.8

D 0.86

E 0.71

12

Which of these is NOT equal to the others?

A $\frac{3}{5}$

B 0.6

C 0.06

D 60%

E $\frac{6}{10}$

13

Write 0.65 as a fraction in its simplest form.

A $\frac{6}{5}$

B $\frac{13}{25}$

C $\frac{1}{65}$

D $\frac{13}{20}$

E $\frac{3}{5}$

14

Write $\frac{39}{50}$ as a percentage.

A 39%

B 78%

C 89%

D 7.8%

E 50%

15

Write 85% as a fraction in its simplest form.

A $\frac{8}{5}$

B $\frac{17}{25}$

C $\frac{1}{85}$

D $\frac{5}{8}$

E $\frac{17}{20}$

16

A bag holds 50 marbles. 21 of them are blue.

What percentage of the marbles are blue?

A 42%

B 21%

C 29%

D 10.5%

E 4.2%

17

Which list is in order, smallest first?

A 0.5, $\frac{9}{20}$, 42%, 0.4

B 42%, 0.4, $\frac{9}{20}$, 0.5

C 0.4, $\frac{9}{20}$, 42%, 0.5

D 0.4, 42%, 0.5, $\frac{9}{20}$

E 0.4, 42%, $\frac{9}{20}$, 0.5

18

Which of these is larger than $\frac{3}{5}$?

A 0.55

B 58%

C 0.62

D $\frac{1}{2}$

E $\frac{3}{8}$

Part 2: Write your answer

19

Write $\frac{13}{20}$ as a percentage.

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

20

0.36 written as a fraction in its simplest form has 25 on the bottom.

What is the missing number?

$$\frac{36}{100} = \frac{\boxed{?}}{25}$$

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

21

A test is out of 25. Ali scores 23.

What percentage does Ali score?

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

22

Write $\frac{7}{50}$ as a percentage.

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

23

Write 0.06 as a percentage.

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

24

45 out of 50 children in a year group have a pet.

What percentage of the children have a pet?

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		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	D 12%	$25 \times 4 = 100$, so $\frac{3}{25} = \frac{12}{100} = 12\%$.
2	A 4%	$0.04 \times 100 = 4$, so $0.04 = 4\%$.
3	C $\frac{9}{20}$	$45\% = \frac{45}{100}$. Divide the top and bottom by 5: $\frac{9}{20}$.
4	E 80%	$20 \times 5 = 100$, so $\frac{16}{20} = \frac{80}{100} = 80\%$.
5	B 0.22	$50 \times 2 = 100$, so $\frac{11}{50} = \frac{22}{100} = 0.22$.
6	C $\frac{3}{10}$	0.3 is 3 tenths: $\frac{3}{10}$.
7	A 0.02	$2 \div 100 = 0.02$.
8	D $\frac{2}{25}$	$8\% = \frac{8}{100}$. Divide the top and bottom by 4: $\frac{2}{25}$.
9	E 36%	$25 \times 4 = 100$, so $\frac{9}{25} = \frac{36}{100} = 36\%$.
10	B $\frac{6}{25}$	$\frac{6}{25} = 24\%$. The others are 40%, 30%, 35% and 32%.
11	A 0.68	$25 \times 4 = 100$, so $\frac{17}{25} = \frac{68}{100} = 0.68$.
12	C 0.06	$\frac{3}{5} = \frac{6}{10} = 0.6 = 60\%$. But 0.06 is 6%.
13	D $\frac{13}{20}$	$0.65 = \frac{65}{100}$. Divide the top and bottom by 5: $\frac{13}{20}$.
14	B 78%	$50 \times 2 = 100$, so $\frac{39}{50} = \frac{78}{100} = 78\%$.
15	E $\frac{17}{20}$	$85\% = \frac{85}{100}$. Divide the top and bottom by 5: $\frac{17}{20}$.
16	A 42%	$50 \times 2 = 100$, so $\frac{21}{50} = \frac{42}{100} = 42\%$.
17	E 0.4, 42%, $\frac{9}{20}$, 0.5	As percentages they are 40%, 42%, 45% and 50%.
18	C 0.62	$\frac{3}{5} = 60\%$. Only 0.62 = 62% is larger; the others are 55%, 58%, 50% and 37.5%.
19	65	$20 \times 5 = 100$, so $\frac{13}{20} = \frac{65}{100} = 65\%$.
20	9	$0.36 = \frac{36}{100}$. Divide the top and bottom by 4: $\frac{9}{25}$.
21	92	$25 \times 4 = 100$, so $23 \times 4 = 92$: 92%.
22	14	$50 \times 2 = 100$, so $\frac{7}{50} = \frac{14}{100} = 14\%$.
23	6	$0.06 \times 100 = 6$, so the answer is 6%.
24	90	$50 \times 2 = 100$, so $45 \times 2 = 90$: 90%.

Score: out of 24