

11+ Maths Practice Paper

Year 4 · Foundation

Lesson 3.3: Adding and subtracting fractions

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

Work out this sum.

$$\frac{2}{7} + \frac{3}{7} = \boxed{?}$$

A $\frac{5}{14}$

B $\frac{5}{7}$

C $\frac{6}{7}$

D $\frac{1}{7}$

E $\frac{6}{14}$

Answer: B The bottom numbers are the same, so add the tops: $2 + 3 = 5$. The bottom stays 7: $\frac{5}{7}$.

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

Now turn over and start Part 1.

Part 1: Multiple choice

1

Work out this sum.

$$\frac{3}{9} + \frac{4}{9} = \boxed{?}$$

A $\frac{7}{18}$

B $\frac{1}{9}$

C $\frac{8}{9}$

D $\frac{6}{9}$

E $\frac{7}{9}$

2

Work out this subtraction.

$$\frac{5}{6} - \frac{4}{6} = \boxed{?}$$

A $\frac{1}{6}$

B $\frac{9}{12}$

C $\frac{1}{12}$

D $\frac{2}{6}$

E $\frac{5}{6}$

3

A pizza is cut into 8 equal slices. Sam eats $\frac{3}{8}$ of the pizza and Ella eats $\frac{2}{8}$.

What fraction of the pizza do they eat altogether?

A $\frac{5}{16}$

B $\frac{6}{8}$

C $\frac{5}{8}$

D $\frac{3}{8}$

E $\frac{1}{8}$

4

Work out this subtraction. Give your answer in its simplest form.

$$\frac{7}{10} - \frac{3}{10} = \boxed{?}$$

A $\frac{4}{5}$

B $\frac{2}{5}$

C $\frac{4}{20}$

D $\frac{1}{2}$

E $\frac{3}{10}$

5

What must be added to $\frac{3}{8}$ to make 1 whole?

A $\frac{3}{8}$

B $\frac{1}{8}$

C $\frac{6}{8}$

D $\frac{5}{8}$

E $\frac{5}{16}$

6

Work out this sum.

$$\frac{4}{5} + \frac{1}{5} = \boxed{?}$$

- A 1 B $\frac{5}{10}$ C $\frac{3}{5}$ D 2 E $\frac{4}{10}$

7

Work out this sum.

$$\frac{1}{2} + \frac{1}{4} = \boxed{?}$$

- A $\frac{2}{6}$ B $\frac{2}{4}$ C $\frac{1}{6}$ D $\frac{1}{8}$ E $\frac{3}{4}$

8

Ben says that $\frac{1}{3} + \frac{1}{3} = \frac{2}{6}$.

What should the answer be?

- A $\frac{2}{6}$ B $\frac{1}{3}$ C $\frac{2}{3}$ D $\frac{1}{6}$ E $\frac{1}{9}$

9

Work out this subtraction. Give your answer in its simplest form.

$$\frac{11}{12} - \frac{5}{12} = \boxed{?}$$

- A $\frac{6}{24}$ B $\frac{1}{2}$ C $\frac{1}{3}$ D $\frac{5}{12}$ E $\frac{7}{12}$

10

Work out this subtraction.

$$\frac{3}{4} - \frac{1}{2} = \boxed{?}$$

- A $\frac{2}{4}$ B $\frac{1}{2}$ C $\frac{2}{6}$ D $\frac{1}{4}$ E $\frac{3}{8}$

11

A jug is $\frac{5}{6}$ full of juice. Mia pours out $\frac{2}{6}$ of a jug.

How full is the jug now? Give your answer in its simplest form.

A $\frac{1}{2}$

B $\frac{3}{12}$

C $\frac{7}{12}$

D $\frac{2}{3}$

E $\frac{1}{3}$

12

Work out this sum.

$$\frac{2}{5} + \frac{2}{5} + \frac{1}{5} = \boxed{?}$$

A $\frac{5}{15}$

B $\frac{4}{5}$

C 1

D $\frac{5}{10}$

E 2

13

Which sum has the answer $\frac{7}{8}$?

A $\frac{5}{8} + \frac{3}{8}$

B $\frac{4}{8} + \frac{2}{8}$

C $\frac{1}{2} + \frac{1}{8}$

D $\frac{3}{4} + \frac{1}{4}$

E $\frac{5}{8} + \frac{2}{8}$

14

Work out this subtraction.

$$\frac{1}{2} - \frac{1}{8} = \boxed{?}$$

A $\frac{1}{6}$

B $\frac{3}{8}$

C $\frac{1}{4}$

D $\frac{4}{8}$

E $\frac{1}{8}$

15

Tom reads $\frac{2}{9}$ of his book on Monday and $\frac{4}{9}$ on Tuesday.

What fraction of the book does he still have to read? Give your answer in its simplest form.

A $\frac{6}{9}$

B $\frac{2}{3}$

C $\frac{3}{18}$

D $\frac{1}{3}$

E $\frac{1}{9}$

16

Work out this sum.

$$\frac{3}{4} + \frac{1}{8} = \boxed{?}$$

A $\frac{7}{8}$

B $\frac{4}{12}$

C $\frac{4}{8}$

D $\frac{1}{2}$

E $\frac{5}{8}$

Part 2: Write your answer

17

What is the missing number?

$$\frac{3}{7} + \frac{2}{7} = \frac{\boxed{?}}{7}$$

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

18

What is the missing number?

$$\frac{9}{10} - \frac{6}{10} = \frac{\boxed{?}}{10}$$

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

19

What is the missing number?

$$\frac{1}{4} + \frac{\boxed{?}}{4} = 1$$

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

20

What is the missing number?

$$\frac{1}{2} + \frac{3}{8} = \frac{\boxed{?}}{8}$$

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

Answer sheet

11+ Maths Practice Paper · Year 4 · Lesson 3.3: Adding and subtracting fractions

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 ☐

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

17		19	
18		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	E $\frac{7}{9}$	Add the tops: $3 + 4 = 7$. The bottom stays 9: $\frac{7}{9}$.
2	A $\frac{1}{6}$	Take away the tops: $5 - 4 = 1$. The bottom stays 6: $\frac{1}{6}$.
3	C $\frac{5}{8}$	$\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$. Eighths added to eighths are still eighths.
4	B $\frac{2}{5}$	$7 - 3 = 4$, so $\frac{4}{10}$. Both 4 and 10 are even, so divide by 2: $\frac{2}{5}$.
5	D $\frac{5}{8}$	1 whole is $\frac{8}{8}$. $8 - 3 = 5$, so you need $\frac{5}{8}$.
6	A 1	$\frac{4}{5} + \frac{1}{5} = \frac{5}{5}$, and five fifths make 1 whole.
7	E $\frac{3}{4}$	Change the half into quarters: $\frac{1}{2} = \frac{2}{4}$. Then $\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$.
8	C $\frac{2}{3}$	Ben added the bottom numbers. Add only the tops: $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$.
9	B $\frac{1}{2}$	$11 - 5 = 6$, so $\frac{6}{12}$. Divide the top and bottom by 6: $\frac{1}{2}$.
10	D $\frac{1}{4}$	$\frac{1}{2} = \frac{2}{4}$, so $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$.
11	A $\frac{1}{2}$	$\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$. Divide the top and bottom by 3: $\frac{1}{2}$.
12	C 1	$2 + 2 + 1 = 5$, so $\frac{5}{5}$, which is 1 whole.
13	E $\frac{5}{8} + \frac{2}{8}$	$\frac{5}{8} + \frac{2}{8} = \frac{7}{8}$. The others make 1, $\frac{6}{8}$, $\frac{5}{8}$ and 1.
14	B $\frac{3}{8}$	$\frac{1}{2} = \frac{4}{8}$, so $\frac{4}{8} - \frac{1}{8} = \frac{3}{8}$.
15	D $\frac{1}{3}$	He has read $\frac{2}{9} + \frac{4}{9} = \frac{6}{9}$. The whole book is $\frac{9}{9}$, so $\frac{3}{9}$ is left, which simplifies to $\frac{1}{3}$.
16	A $\frac{7}{8}$	$\frac{3}{4} = \frac{6}{8}$, so $\frac{6}{8} + \frac{1}{8} = \frac{7}{8}$.
17	5	Add the tops: $3 + 2 = 5$.
18	3	Take away the tops: $9 - 6 = 3$.
19	3	1 whole is $\frac{4}{4}$, and $4 - 1 = 3$.
20	7	$\frac{1}{2} = \frac{4}{8}$, and $4 + 3 = 7$.

Score: out of 20