

Adding and Subtracting Fractions

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

- mathematical instruments



You must **not** use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

- In all calculations, show clearly how you work out your answer.

1 Calculate the following:

(Level 3)

1(a)

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

[1 mark]

Answer _____

1(b)

$$\frac{1}{5} + \frac{3}{6}$$

[1 mark]

Answer _____

1(c)

$$\frac{5}{7} - \frac{1}{3}$$

[1 mark]

Answer _____

1(d)

$$\frac{8}{11} + \frac{3}{6} - \frac{1}{11}$$

[2 marks]

Answer _____

Turn over for next question

2 John is paid on the first day of every month. (Level 3)

He spends $\frac{1}{3}$ of his pay on food and $\frac{1}{4}$ of his pay on rent.

What fraction of his pay will John have left?

Write your answer in its simplest form.

[3 marks]

Answer _____

3 Sarah has started reading a new book. (Level 4)

On Saturday she reads $\frac{2}{15}$ of the book.

On Sunday she reads a further $\frac{1}{3}$ of the total number of pages in the book.

On Monday she reads another $\frac{1}{5}$ of the total number of pages in the book.

On Tuesday she finishes the book.

What fraction of the book did she read on Tuesday?

Write your answer in its simplest form.

[3 marks]

Answer _____

Turn over for next question

- 4 A conservation group try to estimate the population of different types of trees that are found in a nearby forest: (Level 4)

$\frac{1}{18}$ of the trees are oak

$\frac{2}{9}$ of the trees are beech

and $\frac{1}{4}$ of the trees are pine.

- 4(a) What fraction of the trees in the forest are not oak, beech or pine?

[3 marks]

Answer _____

- 4(b) The group estimates there are 720 trees in the forest. How many of these trees are **not** oak or pine?

[3 marks]

Answer _____



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- 5 A rectangular field is measured to be $\frac{9}{4}$ km by $\frac{11}{8}$ km. (Level 4)

What is the perimeter of the field?

Give your answer as a mixed fraction.

[3 marks]

Answer _____

- 6 The passenger list on a cruise ship shows that: (Level 4)

$\frac{1}{10}$ of the passengers come from Italy.

$\frac{1}{4}$ of the passengers come from Sweden.

And 520 passengers come from the UK.

How many passengers are there all together?

[3 marks]

Answer _____

End of questions