GCSE MATHEMATICS
AQA | Edexcel | OCR I WJEC

## 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.


2 John is paid on the first day of every month.
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.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer $\qquad$

3 Sarah has started reading a new book.

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.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer $\qquad$

Turn over for next question

4 A conservation group try to estimate the population of different types of tress that are found in a nearby forest:
$\frac{1}{18}$ 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?
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer $\qquad$

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

## Turn over for next question

5 A rectangular field is measured to be $\frac{9}{4} \mathrm{~km}$ by $\frac{11}{8} \mathrm{~km}$.
What is the perimeter of the field?
Give your answer as a mixed fraction.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer $\qquad$
$6 \quad$ The passenger list on a cruise ship shows that:
$\frac{1}{10}$ 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?
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer $\qquad$

End of Questions

