MME

GCSE MATHEMATICS AQA | Edexcel | OCR | 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 vour answer in its simplest form. | |
| | | [3 marks] |
| | | |
| | | |
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| | | |
| | Answer | |
| | | |
| 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. | [2 morke] |
| | | [3 marks] |
| | | |
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| | | |
| | Answer | |
| | | |
| | 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? | | | |
| | | [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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| | | | | |
| Turn over for next question | | | | |
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| | | | | |

| 5 | A rectangular field is measured to be $\frac{9}{2}$ km by $\frac{11}{2}$ km | |
|---|---|-----------|
| | What is the perimeter of the field? | |
| | Give your answer as a mixed fraction | |
| | | [3 marke] |
| | | [5 marks] |
| | | |
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| | | |
| | Answer | |
| | | |
| 6 | 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? | [2 marka] |
| | | [5 marks] |
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| | Answer | |
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| | End of Questions | |
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