

Fractions (Mixed)

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 In the first round of a gymnastics competition, James is given a score of $2\frac{2}{11}$.

His score is later revised to account for the difficulty in that round.

His new score is $2\frac{2}{11} \times 1\frac{1}{12}$

1(a) What is his new score?

Give your answer as a mixed fraction.

[2 marks]

Answer _____

1(b) In the second round of the competition, James scores $7\frac{1}{2}$.

His score is again revised.

His score is now $7\frac{1}{2} \div \frac{2}{3}$.

What is his new score?

Give your answer as a mixed fraction.

[2 marks]

Answer _____

Turn over for next question

2 Esther has baked 48 muffins.

$\frac{1}{6}$ of the muffins are chocolate.

$\frac{1}{4}$ of the muffins are blueberry.

$\frac{1}{3}$ of the muffins are lemon.

2(a) What fraction of the muffins are not chocolate, blueberry or lemon?

Give your answer as a fraction in its simplest form.

[2 marks]

Answer _____

2(b) How many of the muffins are not chocolate, blueberry or lemon?

[2 marks]

Answer _____



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- 3** Four friends are ordering pizza from a take away.
 The amount of pizza each person eats is shown as a fraction below.
 Matthew eats $\frac{4}{5}$ of a pizza
 Lily eats $\frac{3}{4}$ of a pizza
 George eats $\frac{7}{8}$ of a pizza
 Sam eats $\frac{5}{6}$ of a pizza

- 3(a)** Which person eats the most pizza?
 You must show your workings.

[3 marks]

Answer _____

- 3(b)** 4 pizzas are ordered in total.
 How much pizza is left?
 Give your answer as a fraction in its simplest form.

[2 marks]

Answer _____

Turn over for next question

4 A farmer owns a field which has an area of 9 km^2 .

4(a) He uses $\frac{4}{5}$ of this field to grow potatoes.

How much of the field is used to grow potatoes?

Give your answer as a fraction in its simplest form.

[2 marks]

Answer _____ km^2

4(b) The farmer owns another field which measures $\frac{3}{8} \text{ km}$ by $1\frac{5}{12} \text{ km}$.

What is the area of the field?

Give your answer as a fraction in its simplest form.

[2 marks]

Answer _____ km^2

Turn over for next question

5 If $a = 1\frac{1}{7}$ and $b = 3\frac{1}{3}$

5(a) Find the value of ab .

Give your answer as a mixed fraction in its simplest form.

[2 marks]

Answer _____

5(b) Find the value of $a + b$

Give your answer as a mixed fraction in its simplest form.

[2 marks]

Answer _____



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- 6** Natasha is cutting up rope.
She has 900 cm of rope.
Natasha uses $\frac{1}{5}$ of the rope to tie up a parcel.
She uses $\frac{1}{3}$ of the rope for a craft project.

- 6(a)** What fraction of the original rope remains?
Give your answer as a fraction in its simplest form.

[2 marks]

Answer _____

- 6(b)** Natasha then cuts up the remaining rope into four equal pieces.
What size, in cm, is each of these equal pieces of rope?

[2 marks]

Answer _____

End of Questions