

## Fractions (Grade 1 - 4)

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  $2\frac{2}{11}$ . (Level 3)

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]**

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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]**

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Answer \_\_\_\_\_

**Turn over for next question**

**2** Esther has baked 48 muffins. (Level 4)

$\frac{1}{6}$  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]

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Answer \_\_\_\_\_

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

[2 marks]

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Answer \_\_\_\_\_



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**3** Four friends are ordering pizza from a take away. (Level 4)

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]**

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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]**

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Answer \_\_\_\_\_

**Turn over for next question**

4 A farmer owns a field which has an area of  $9 \text{ km}^2$ .

(Level 4)

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]

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Answer \_\_\_\_\_  $\text{km}^2$

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]

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Answer \_\_\_\_\_  $\text{km}^2$



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5 If  $a=1\frac{1}{7}$  and  $b=3\frac{1}{3}$  (Level 4)

5(a) Find the value of  $ab$ .

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

[2 marks]

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Answer \_\_\_\_\_

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

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

[2 marks]

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Answer \_\_\_\_\_



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- 6** Natasha is cutting up rope. (Level 4)  
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]

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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]

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Answer \_\_\_\_\_

**End of questions**