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GCSE Exam Questions

Multiplying and Dividing Fractions | Number

GCSE Exam Questions: Multiplying and Dividing Fractions

1) **(a)** Work out:
$$1\frac{1}{3} \times 4\frac{2}{7}$$

- -

(2)

(b) Work out:
$$\frac{3}{4} \div \frac{1}{8}$$

- -

(2)

(4 marks)

2) Penny has 54 jelly beans in her jar.

$\frac{1}{6}$ of them are red.

$\frac{2}{9}$ of them are green.

$\frac{1}{3}$ of them are blue.

The rest are all yellow.

(a) How many jelly beans are green coloured?

- -

(1)

(b) How many jelly beans are yellow coloured?

- -

(3)

(4 marks)

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GCSE Exam Questions: Multiplying and Dividing Fractions

3) There are 36 cherry pies eaten at a party. Each person at the party eats $\dfrac{2}{3}$ of a pie.

How many people were at the party?

(3 marks)

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4) A gardener owns a rectangular plot with the dimensions $3\dfrac{1}{4}\,km$ by $4\dfrac{2}{5}\,km$. What is the area of the plot?

(3 marks)

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GCSE Exam Questions: Multiplying and Dividing Fractions Answers

	Question	Answer	Marks
1) (a)	Work out: $1\dfrac{1}{3} \times 4\dfrac{2}{7}$	**(a)** $\dfrac{4}{3}$ or $\dfrac{30}{7}$ **seen** $\dfrac{40}{7}$ or $5\dfrac{5}{7}$ **oe**	**(1)** **(1)**
(b)	Work out: $\dfrac{3}{4} \div \dfrac{1}{8}$	**(b)** $\dfrac{3}{4} \times \dfrac{8}{1}$ **oe** 6	**(1)** **(1)**
2)	Penny has 54 jelly beans in her jar. $\dfrac{1}{6}$ of them are red. $\dfrac{2}{9}$ of them are green. $\dfrac{1}{3}$ of them are blue. The rest are all yellow.		
(a)	How many jelly beans are green coloured?	**(a)** 12	**(1)**
(b)	How many jelly beans are yellow coloured?	**(b)** 9 red or 18 blue seen 54 - (9 + 18 + "12") 15	**(1)** **(1)** **(1)**
3)	There are 36 cherry pies eaten at a party. Each person at the party eats $\dfrac{2}{3}$ of a pie. How many people were at the party?	$36 \div \dfrac{2}{3}$ or $36 \times \dfrac{3}{2}$ **oe** $\dfrac{108}{2}$ or 18×3 **oe seen** 54	**(1)** **(1)** **(1)**
4)	A gardener owns a rectangular plot with the dimensions $3\dfrac{1}{4} km$ by $4\dfrac{2}{5} km$. What is the area of the plot?	$\dfrac{13}{4}$ or $\dfrac{22}{5}$ **seen** $\dfrac{13}{4} \times \dfrac{22}{5}$ **oe** $\dfrac{143}{10} km^2$ or $14.3 km^2$	**(1)** **(1)** **(1)**

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