



THIRD SPACE
LEARNING

GCSE Exam Questions

Dividing Fractions | Number

GCSE Exam Questions: Dividing Fractions

1) (a) Work out: $\frac{2}{9} \div \frac{3}{7}$

(2)

(b) Work out: $7\frac{1}{7} \div 5\frac{2}{5}$

(2)

(4 marks)

2) (a) Clarissa has $\frac{9}{10}l$ of fizzy drinks for her party. She is going to fill as many

$\frac{1}{12}l$ glasses. What is the maximum number of glasses she can fill?

(1)

(b) Rather than filling each glass to the top, she decided to half fill each glass. How many glasses can she now fill?

(1)

(Total number of marks)

3) A seamstress is cutting pieces of fabric from a roll that is $6\frac{2}{9}m$ long. Each piece of fabric is $\frac{6}{7}m$ long. How many pieces of fabric can she cut from the roll?

(3)

(3 marks)

GCSE Exam Questions: Dividing Fractions

4) (a) The area of the rectangle on the right is $4\frac{2}{5}m^2$. The

length of the rectangle is $1\frac{2}{3}m$. Work out the width of the rectangle.

$$1\frac{2}{3}m$$

$$\text{Area} = 4\frac{2}{5}m^2 \quad w$$

(3)

(b) What is the perimeter of the rectangle?

(2)

(5 marks)

GCSE Exam Questions: Dividing Fractions Answers

	Question	Answer	Marks
1) (a)	Work out: $\frac{2}{9} \div \frac{3}{7} =$	(a) $\frac{2}{9} \times \frac{3}{7}$ $= \frac{14}{27}$	(1) (1)
(b)	Work out: $7\frac{1}{7} \div 5\frac{2}{5} =$	(b) $\frac{50}{7} \times \frac{5}{27}$ $= \frac{250}{189}$	(1) (1)
2) (a)	Clarissa has $\frac{9}{10}l$ of fizzy drinks for her party. She is going to fill as many $\frac{1}{12}l$ glasses. What is the maximum number of glasses she can fill?	(a) $\frac{9}{10} \div \frac{1}{12}$ $= 10.8$ 10 glasses	(1) (1) (1)
(b)	Rather than filling each glass to the top, she decided to half fill each glass. How many glasses can she now fill?	(b) $\frac{9}{10} \div \frac{1}{24}$ or 10.8×2 $= 21.6$ 21 glasses	(1) (1) (1)
3) (a)	A seamstress is cutting pieces of fabric from a roll that is $6\frac{2}{9}m$ long. Each piece of fabric is $\frac{6}{7}m$ long. How many pieces of fabric can she cut from the roll?	(a) $\frac{56}{9} \times \frac{7}{6}$ $= \frac{196}{27} = 7.259$ 7 pieces of fabric	(1) (1) (1)

GCSE Exam Questions: Dividing Fractions Answers

	Question	Answer	Marks
4) (a)	<p>The area of the rectangle on the right is $4\frac{2}{5}m^2$. The length of the rectangle is $1\frac{2}{3}m$. Work out the width of the rectangle.</p> <p style="text-align: center;">$1\frac{2}{3}m$</p> <div style="border: 1px solid orange; padding: 10px; width: fit-content; margin: 10px auto;"> $Area = 4\frac{2}{5}m^2$ </div> <p style="text-align: right;">w</p>	<p>(a) $4\frac{2}{5} \div 1\frac{2}{3}$</p> <p>$\frac{22}{5} \times \frac{3}{5}$</p> <p>$= \frac{66}{25}m$ or $2.64m$ or $2\frac{16}{25}m$</p>	<p>(1)</p> <p>(1)</p> <p>(1)</p>
(b)	What is the perimeter of the rectangle?	<p>(b) $\frac{5}{3} + \frac{5}{3} + \frac{66}{25} + \frac{66}{25}$</p> <p>$= \frac{646}{75}m$ or $8\frac{46}{75}m$ or $8.61m$ (2dp)</p>	<p>(1)</p> <p>(1)</p>

Where to go next?

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