



THIRD SPACE  
LEARNING

# GCSE Exam Questions

Multiplying Fractions | Number

## GCSE Exam Questions: Multiplying Fractions

- 1) (a) Work out  $\frac{3}{5} \times \frac{4}{9}$ . Simplify your answer.

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(2)

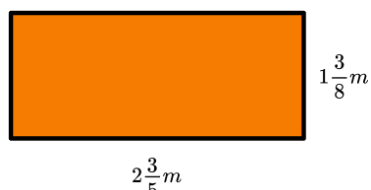
- (b) Work out  $2\frac{3}{7} \times 1\frac{3}{4}$ . Simplify your answer.

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(3)

(5 marks)

- 2) Jo has a rectangular chicken pen measuring  $1\frac{3}{8}m$  by  $2\frac{3}{5}m$ .



- (a) Find the area of the chicken pen, giving your answer as a mixed number in its simplest form.

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(3)

- (b) It is recommended that there should be  $\frac{2}{5}m^2$  for every chicken kept in the pen. Jo has 8 chickens. Is her chicken pen big enough?

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(3)

(6 marks)

- 3) (a) Work out  $\left(\frac{3}{8}\right)^2$

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(2)

- (b) Work out  $\left(-\frac{2}{5}\right)^3$

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(3)

(5 marks)

## GCSE Exam Questions: Multiplying Fractions

- 4) (a) Work out  $\frac{2}{5} \times \frac{3}{8} \times 1\frac{1}{4}$ . Simplify your answer.

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(3)

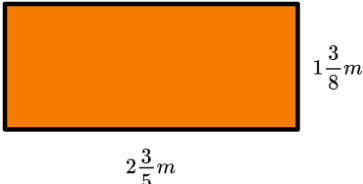
- (b) Work out the missing number:

$$\boxed{\phantom{000}} \div \frac{4}{7} = 1\frac{2}{5}$$


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(3)

**(6 marks)**

# GCSE Exam Questions: Multiplying Fractions Answers

	Question	Answer	Marks
<b>1) (a)</b>	Work out $\frac{3}{5} \times \frac{4}{9}$ . Simplify your answer.	<b>(a)</b> $\frac{12}{45}$ <b>seen</b>	<b>(1)</b>
		$\frac{4}{15}$	<b>(1)</b>
<b>(b)</b>	Work out $2\frac{3}{7} \times 1\frac{3}{4}$ . Simplify your answer.	<b>(b)</b> $\frac{17}{7}$ or $\frac{7}{4}$ <b>oe</b>	<b>(1)</b>
		$\frac{119}{28}$ <b>oe</b>	<b>(1)</b>
		$\frac{17}{4}$ or $4\frac{1}{4}$	<b>(1)</b>
<b>2)</b>	<p>Jo has a rectangular chicken pen measuring <math>2\frac{3}{5}m</math> by <math>1\frac{3}{8}m</math></p>  <p><b>(a)</b> Find the area of the chicken pen, giving your answer as a mixed number in its simplest form.</p>	<p><b>(a)</b> <math>\frac{11}{8}</math> or <math>\frac{13}{5}</math> <b>oe</b></p> <p><math>\frac{143}{40}</math></p> <p><math>3\frac{23}{40}</math> <b>oe</b></p>	<p><b>(1)</b></p> <p><b>(1)</b></p> <p><b>(1)</b></p>
<b>(b)</b>	It is recommended that there should be $\frac{2}{5}m^2$ for every chicken kept in the pen. Jo has 8 chickens. Is her chicken pen big enough?	<p><b>(b)</b> <math>\frac{2}{5} \times 8</math></p> <p><math>\frac{16}{5} = \frac{128}{40}</math> <b>oe</b></p> <p>Yes</p>	<p><b>(1)</b></p> <p><b>(1)</b></p> <p><b>(1)</b></p>
<b>3) (a)</b>	Work out $\left(\frac{3}{8}\right)^2$	<p><b>(a)</b> 9 or 64 <b>seen</b></p> <p><math>\frac{9}{64}</math></p>	<p><b>(1)</b></p> <p><b>(1)</b></p>

## GCSE Exam Questions: Multiplying Fractions Answers

	Question	Answer	Marks
(b)	Work out $\left(-\frac{2}{5}\right)^3$	<b>(b) 8 or 125 seen</b> $\frac{8}{125}$ $-\frac{8}{125}$	<b>(1)</b> <b>(1)</b> <b>(1)</b>
4) (a)	Work out $\frac{2}{5} \times \frac{3}{8} \times 1\frac{1}{4}$ . Simplify your answer.	<b>(a) <math>1\frac{1}{4} = \frac{5}{4}</math> oe</b> $\frac{30}{160}$ $\frac{3}{16}$	<b>(1)</b> <b>(1)</b> <b>(1)</b>
(b)	Work out the missing number:  $\div \frac{4}{7} = 1\frac{2}{5}$	<b>(b) <math>1\frac{2}{5} \times \frac{4}{7}</math></b> $1\frac{2}{5} = \frac{7}{5}$ $\frac{4}{5}$	<b>(1)</b> <b>(1)</b> <b>(1)</b>

# Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning [GCSE maths revision](#) pages.

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