GCSE Exam Questions

Adding Fractions | Number

GCSE Exam Questions: Adding Fractions

1) **(a)** Work out $\dfrac{2}{5} + \dfrac{5}{12}$

Give your answer in its simplest form.

----

(2)

(b) Work out $1\dfrac{2}{5} + 2\dfrac{3}{4}$

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

----

(3)

(5 marks)

2) Marcus is training for a triathlon. He swims three days in one week.

Marcus swims $1\dfrac{1}{2}$ miles on Monday.

Then he swims $1\dfrac{2}{3}$ miles on Thursday.

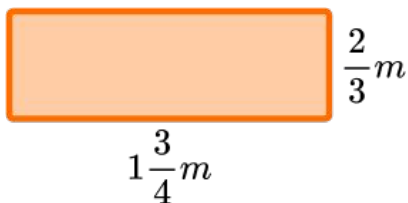Finally he swims $2\dfrac{1}{5}$ miles on Sunday.

Work out how far Marcus swam in total.

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

_____miles

(3 marks)

thirdspacelearning.com   Helping schools close the maths attainment gap through targeted one to one teaching and flexible resources

1

GCSE Exam Questions: Adding Fractions

3) Find the perimeter of the rectangle below:

$\frac{2}{3}m$

$1\frac{3}{4}m$

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

_____m

(4 marks)

4) Work out $\dfrac{3\pi}{8} + \dfrac{\pi}{5}$
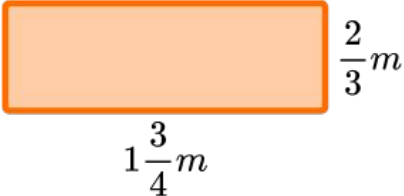
Give your answer as a fraction in terms of π

_____

(2 marks)

thirdspacelearning.com   Helping schools close the maths attainment gap through targeted one to one teaching and flexible resources

2

THIRD SPACE LEARNING

GCSE Exam Questions: Adding Fractions Answers

	Question	Answer	Marks
1) (a)	Work out $\dfrac{2}{5} + \dfrac{5}{12}$ Give your answer in its simplest form.	**(a)** Finding a common denominator, e.g. $\dfrac{24}{60} + \dfrac{25}{60}$ $\dfrac{49}{60}$	**(1)** **(1)**
(b)	Work out $1\dfrac{2}{5} + 2\dfrac{3}{4}$ Give your answer as a mixed number in its simplest form.	**(b)** Converting to improper fractions $\dfrac{7}{5} + \dfrac{11}{4}$ Finding a common denominator, e.g. $\dfrac{28}{20} + \dfrac{55}{20}$ or $\dfrac{83}{20}$ $4\dfrac{3}{20}$	**(1)** **(1)** **(1)**
2)	Marcus is training for a triathlon. He swims three days in one week. Marcus swims $1\dfrac{1}{2}$ miles on Monday. He swims $1\dfrac{2}{3}$ miles on Thursday. He swims $2\dfrac{1}{5}$ miles on Sunday. Work out how far Marcus swam in total. Give your answer as a mixed number in its simplest form.	$1\dfrac{1}{2} + 1\dfrac{2}{3} + 2\dfrac{1}{5}$ or $\dfrac{3}{2} + \dfrac{5}{2} + \dfrac{8}{5}$ seen $\dfrac{161}{30}$ $5\dfrac{11}{30}$ (miles)	**(1)** **(1)** **(1)**

thirdspacelearning.com   Helping schools close the maths attainment gap through targeted one to one teaching and flexible resources

3

GCSE Exam Questions: Adding Fractions Answers

	Question	Answer	Marks
3)	Find the perimeter of the rectangle below. $\frac{2}{3}m$ $1\frac{3}{4}m$ Give your answer as a mixed number in its simplest form.	$1\frac{3}{4} + 1\frac{3}{4} + \frac{2}{3} + \frac{2}{3}$ or $\frac{7}{4} + \frac{7}{4} + \frac{2}{3} + \frac{2}{3}$ seen Finding a common denominator $\frac{29}{6}$ $4\frac{5}{6}$	**(1)** **(1)** **(1)** **(1)**
4)	Work out $\frac{3\pi}{8} + \frac{\pi}{5}$ Give your answer as a fraction in terms of π	$\frac{15\pi}{40} + \frac{8\pi}{40}$ $\frac{23\pi}{40}$	**(1)** **(1)**

thirdspacelearning.com   Helping schools close the maths attainment gap through targeted one to one teaching and flexible resources

4

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.

Scan the QR code to discover our library of FREE GCSE maths revision resources

Do you have KS4 students who need additional support in maths?

Our specialist tutors will help students to develop the skills they need to succeed at GCSE in weekly one to one online revision lessons. Trusted by secondary schools across the UK.

Visit thirdspacelearning.com to find out more.

THIRD SPACE
LEARNING