



Functional Skills and GCSE Foundation

Edexcel

Unit 1: Number

Lesson 15 - Simple ratio and proportion

FS1

FS2

GCSE

iGCSE

Bring these to join in:


5 pegs or lego bricks or similar - all the same length, something to draw with and on, a calculator




Start thinking:

Who gets paid more per hour?

Carly gets paid
£58.75 for 5
hours of work

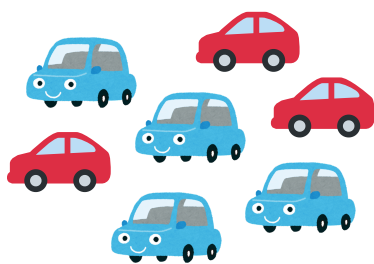


Hannah gets
paid £67.50 for 6
hours of work



Empty box for student work.

Match them up



Blue car : Red car

1:2



Yellow mug : Green Mug

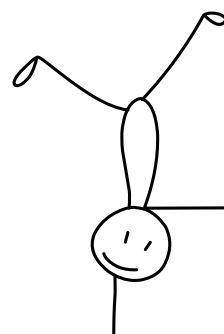
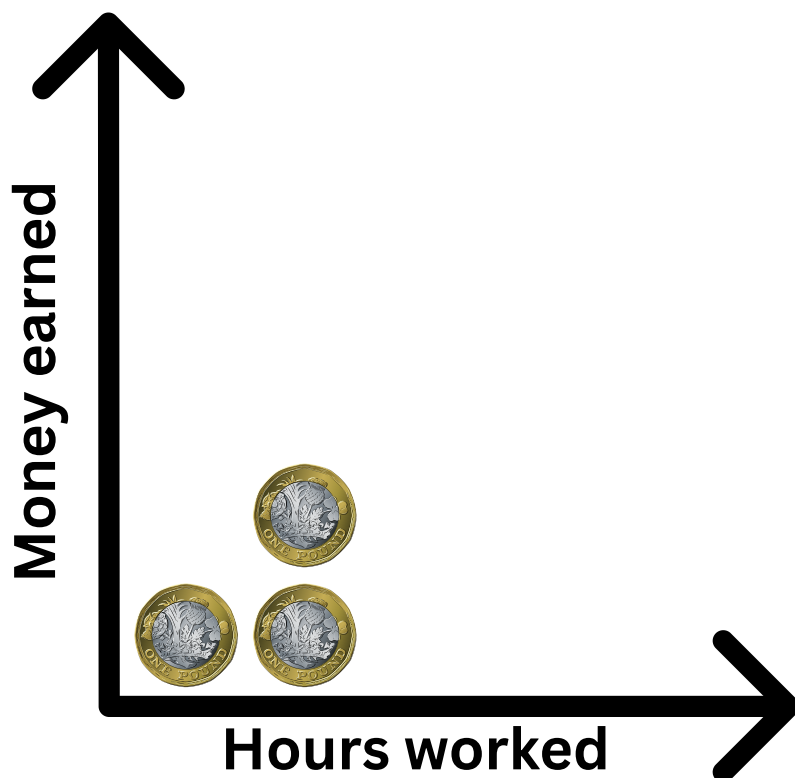
3:4

Lolly : Chocolate



4:3

Direct proportion



Carly gets paid
£58.75 for 5 hours
of work

Blue:Pink



6 : 12

12:24

3:6

6:3

12:6

1:2

Have I simplified it?

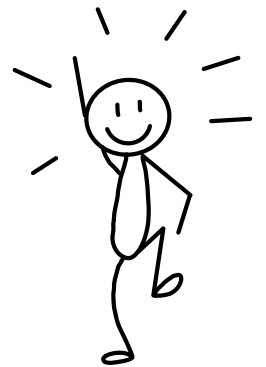
$$\pounds 10 : \pounds 8 = \pounds 5 : \pounds 4$$

$$18\text{cm} : 6\text{cm} = 9\text{cm} : 3\text{cm}$$

$$6 : 5 = 3 : 2.5$$

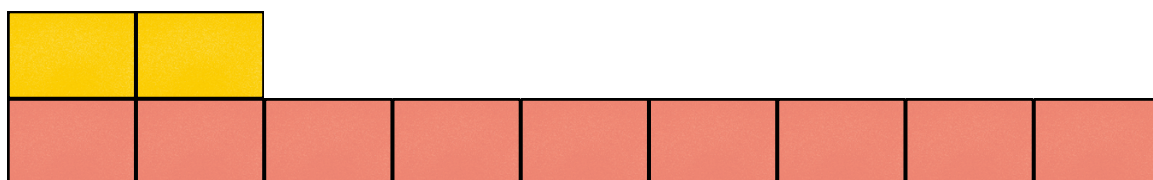
$$\pounds 3 : 50\text{p} = 6 : 1$$

Claud is going to wash his car.
He will use 490 mls of water.
How much soap will he need?



Bar models

A restaurant employs chefs to waiters in the ratio 2:9.
 If they have 6 chefs, how many waiters do they have?



Claud is going to wash his car.
 He will use 490 mls of water.
 How much soap will he need?





At home:

Corbett Maths simplifying ratio practice:

<https://corbettmaths.com/wp-content/uploads/2013/02/simplifying-ratios-pdf1.pdf>

Answers:

<https://corbettmaths.com/2016/12/21/simplifying-ratios-answers/>

Corbett Maths proportion:

<https://corbettmaths.com/wp-content/uploads/2018/11/Unitary-Method-pdf.pdf>

Answers:

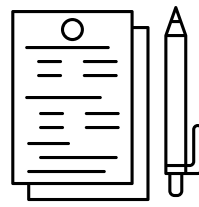
<https://corbettmaths.com/wp-content/uploads/2018/11/Unitary-Method-Answers-pdf.pdf>

Transum FS1 practice:

<https://www.transum.org/Maths/Functional/Resources.asp?ID=201>

Transum FS2 practice (we haven't covered all of this yet but will do more on it soon):

<https://www.transum.org/Maths/Functional/Resources.asp?ID=226>



Exam questions

At home:

Maths genie video simplifying ratio:

<https://www.mathsgenie.co.uk/writing-simplifying-ratio.php>

Questions:

<https://www.mathsgenie.co.uk/resources/3-writing-and-simplifying-ratio.pdf>

Answers:

<https://www.mathsgenie.co.uk/resources/3-writing-and-simplifying-ratioans.pdf>

Kenneth Stafford Proportion questions:

<https://www.kennethstafford.co.uk/resources-folder/past-paper-questions/grade-2-gcse-maths-topics/unitary-method/question-booklet-unitary-method>

Answers:

<https://www.kennethstafford.co.uk/resources-folder/past-paper-questions/grade-2-gcse-maths-topics/unitary-method/solutions-unitary-method>