



Joyfulmathswithruth

FREE home ed
maths lessons
for exams

Functional Skills and GCSE Foundation

Edexcel

Unit 1: Number
Lesson 7 - Dividing
with decimals

FS1
FS2
GCSE
iGCSE



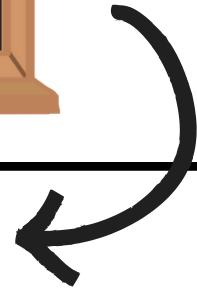
To join in please bring:

4 or more glasses, one filled
with water
A calculator

FS1	<input checked="" type="checkbox"/>
FS2	<input checked="" type="checkbox"/>
GCSE	<input checked="" type="checkbox"/>
iGCSE	<input type="checkbox"/>

Start thinking:

I have £10.50 I need
to share between
me and my 2 children.
How much do we each
get?



Rubbish exam questions that are pretending to relate to real life

Kaiko works 37.5 hours a week. He needs to divide his time equally between 3 different projects. How many hours does he spend on each project?

An 8 story building is 37.6m tall. assuming each floor is the same height, how high is each floor?

“How many times will 0.2 fit into 10”

$$10 \div 0.2$$



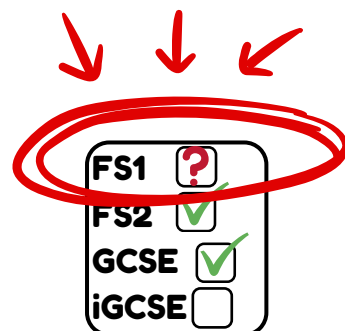
10

What do you notice?

$$1 \div 0.02$$

$$10 \div 0.2$$

$$100 \div 2$$



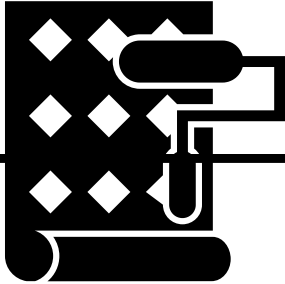
Complete the question

$$78.4 \div 0.8$$

$$= 784 \div \dots\dots\dots$$

$$8 \overline{) 784}$$

Brian has a 12.6m roll of wallpaper. He needs to cut it into strips that are 2.4m long.
How many strips can he make?



What calculation would you work out?

What do you think we should do for this question?



$$317.55 \div 4.35$$

What calculation would you work out?

Make it easier

Tell me a calculation to do that will give
the same answer as.....



I only have
time to do 3
questions

At home:

1. Work out:

4 friends share £25.12 between them equally.
How much do they each get?

2. Work out:

$$441 \div 7$$

$$44.1 \div 0.7$$

$$4.41 \div 0.07$$

3. Work out

$$2.672 \div 0.08$$



At home:

You are organising a trip to a museum.

The total price of the tickets is £100.17

The total price for the coach is £77.58

If nine people are going on the trip, how much should they pay each?



Practice questions

At home:

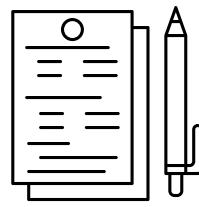
Here is a little problem to try out from Transum

Totally ok to use a calculator to play with this - just think about why it might be that you get the answer rather than making your focus the answer

To want to just practice dividing a decimal by a whole number you can do that on Corbett maths here

If you want to practice dividing by a decimal, you can do that on Corbett maths here

Remember that 5 questions thought about really deeply is waaaaaay better than 30 questions whizzed though.



Exam questions

At home:

FFS 1 and 2 and GCSE:

Here are some exam questions from corbettmaths

The ones that link to today's lesson are: 4, 5, 6, 8, 9, 11, 13, 17, 18, 23, 24, 29, 31, 32, 33

iGCSE:

Because you will have a calculator for your exams, you will not need this for your exam.