



Joyfulmathswithruth

FREE home ed
maths lessons
for exams

Functional Skills and GCSE Foundation

Edexcel

Unit 1: Number
Lesson 6 - Multiplying
decimals

FS1

FS2

GCSE

iGCSE

To join in please bring:



Some paper, some colouring
pens/ pencils

Start thinking:

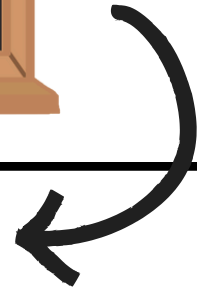
What do you notice?

$$8 \times 4 = 32$$

$$0.8 \times 4 = 3.2$$

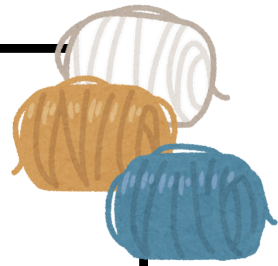
$$8 \times 0.4 = 3.2$$

$$0.8 \times 0.4 = 0.32$$



**I need 7 pieces of string that
are all 0.3m long
How much string do I need
altogether?**

You can do this in lots of different ways!
Don't think that you have to use just 1
method



What are:

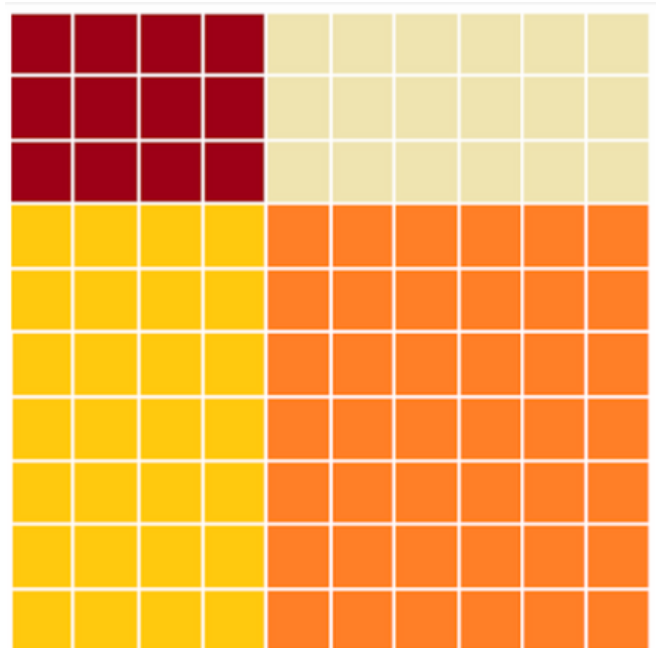
$$0.3 \times 0.4$$

$$0.3 \times 0.6$$

$$0.7 \times 0.4$$

$$0.7 \times 0.6$$

And how
does this
diagram
help?



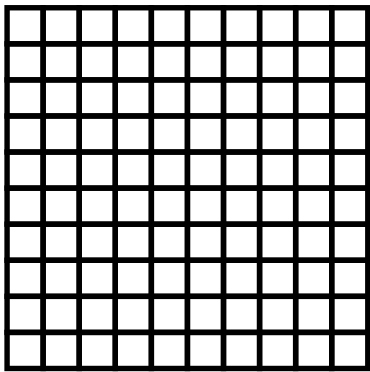
<https://donsteward.blogspot.com/>

Joyfulmathswithruth

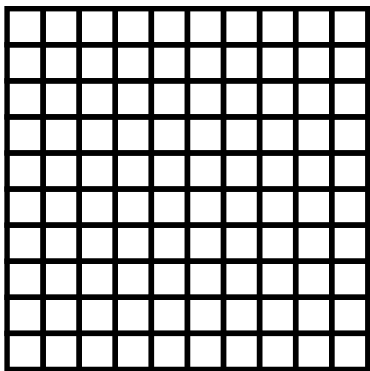


Using this idea, what are:

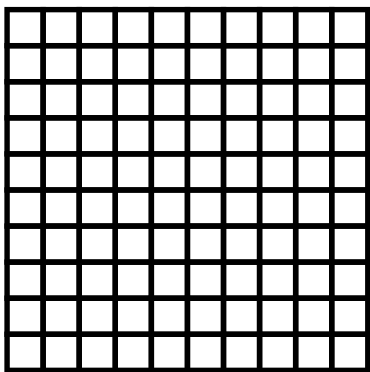
0.1×0.7



0.2×0.4



0.3×0.3



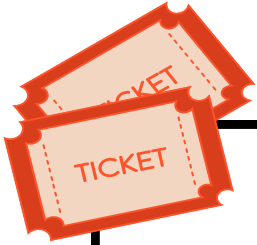
You are going to a museum and the tickets cost:

£7.85 per child

£9.50 per adult

There are 36 children and 12 adults in the group.

How much will it cost in total?



What calculation
would you work
out?

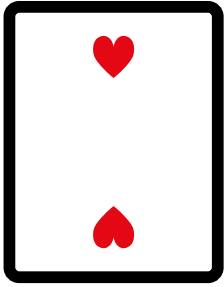
You could be asked something like this:



What is 1.6×2.67 ?

What calculation
would you work
out?

Higher or lower?



You start with 2

1. Higher or Lower
2. Higher or Lower
3. Higher or Lower
4. Higher or Lower
5. Higher or Lower



I only have
time to do 3
questions

At home:

1. Work out:

$$12 \times 7$$

$$1.2 \times 7$$

$$12 \times 0.7$$

$$1.2 \times 0.7$$

2. Work out:

$$£0.60 \times 32$$

$$£4.30 \times 18$$

$$£53.20 \times 45$$

3. Work out

$$6.72 \times 89.3$$



At home:

Harriet is building a fence for her garden.

The fence costs £14.30 per metre to build. The fence needs to be 8.1 metres long. .

Work out the total cost of building the fence



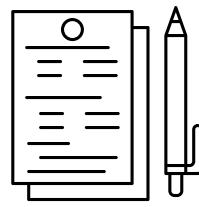
Practice questions

At home:

Here is a lovely problem to dive into on nrich

Remember with this that PRODUCT means the answer when you multiply

To want to just practice doing the multiplications, you could try this set of questions from Increasingly Difficult Exercises



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: 1, 2, 3, 7, 10, 12, 14, 16, 17, 19, 20, 21, 22, 25, 26

GCSE/iGCSE:

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