ArkCurriculum+

Monday 8.2.21
Live maths lesson

Year 3 Unit 7: Deriving multiplication and division facts

Multiplying larger numbers 1

Mathematics
Mastery

Maths Meeting
Monday

8.2.21

- Subtract 20 from 100.
  - 80
- What is the total of 34 and 35?
  - 69
- Double 22
  - 44
- What is half of 30?
  - 15

$$80 \div 10 =$$

$$90 \div 10 =$$

$$100 \div 10 =$$

What is the secret?

Which are the even numbers.

How do you know?

73

58

64

45

On your paper write down how many hundred, tens and ones are in each number. The first one has been done for you.

456   4 hundreds,   5 tens   6 ones

203

819

199

I will know how to multiply a two-digit number by three, four or five.

multiply

part

whole

partition

product

array

Introducing multiplication of two-digit numbers

There are **3** tyres on each trike.
How many tyres would be needed for **12** trikes?

What strategies could you use to solve the problem?

Each part is worth three and there are 12 parts.
The whole is …"

Why might this be difficult to solve?

- *Counting in twelves is hard.*
- *We may know our three times tables only up to ×10.*
- *It's a lot of 3s."*

3 × 12
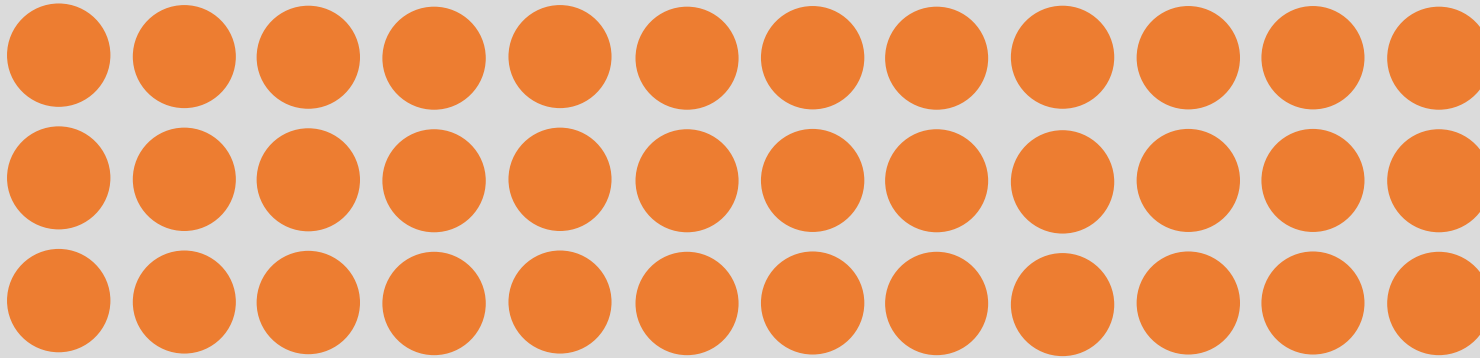
What have I done to the array?
Is the whole the same - with the same number of dots?
How have I changed the parts?

Instead of three parts of 12, there are now three parts of 10 and three parts of 2.

Instead of three parts of 12,
there are now three parts of 10 and three parts of 2.

$$3 \times 12$$
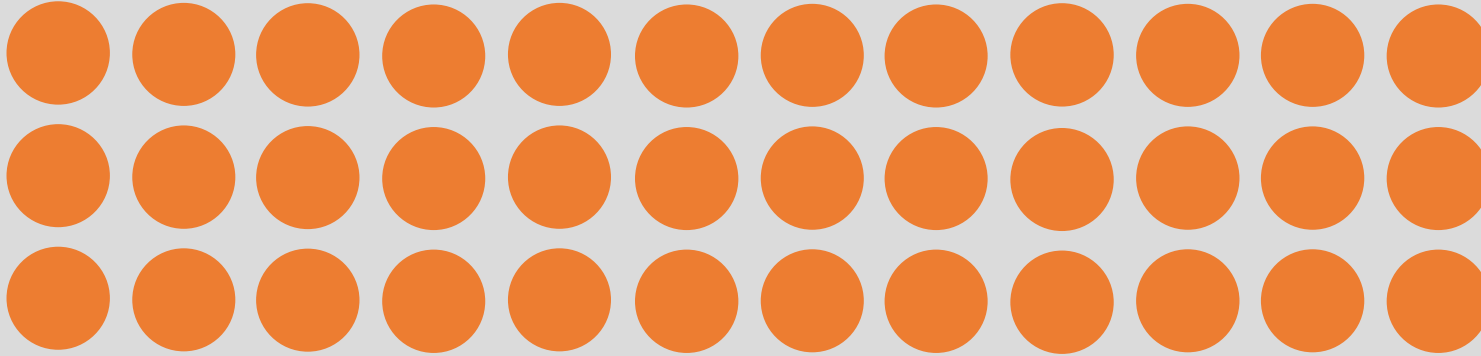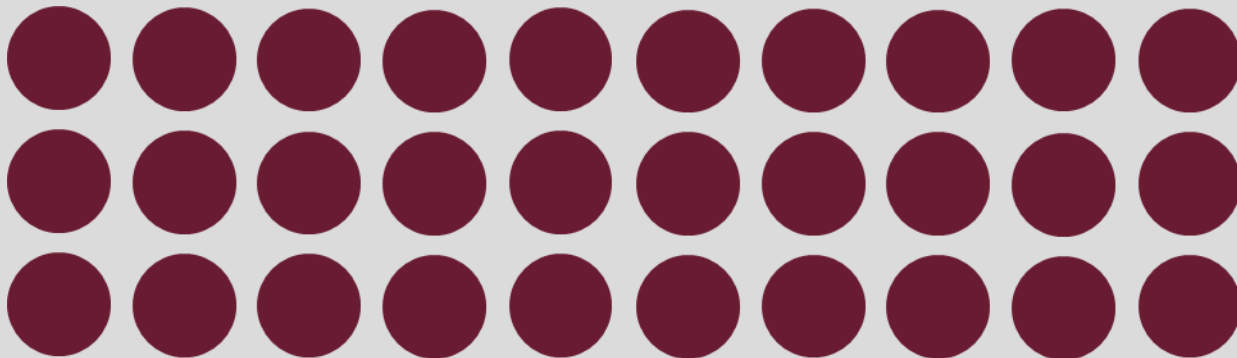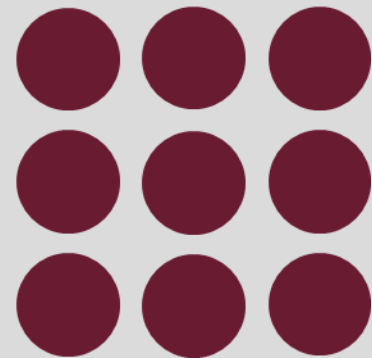
$$3 \times$$
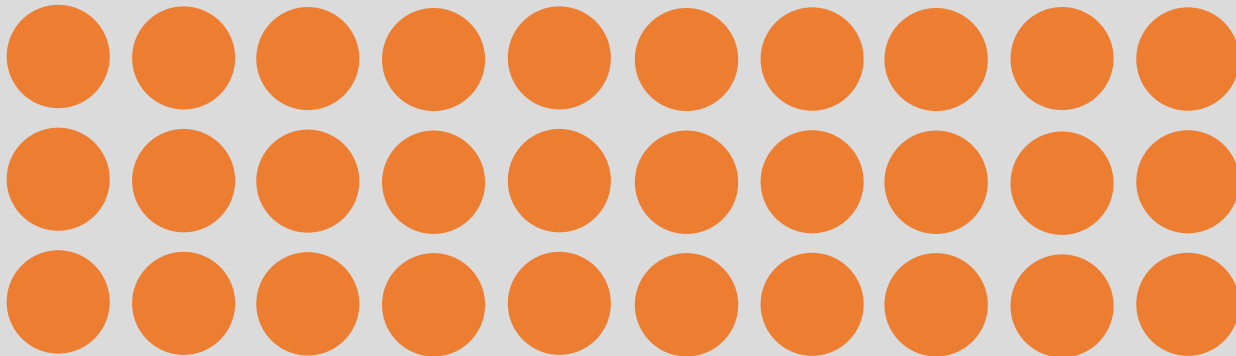
$$3 \times$$

3×10
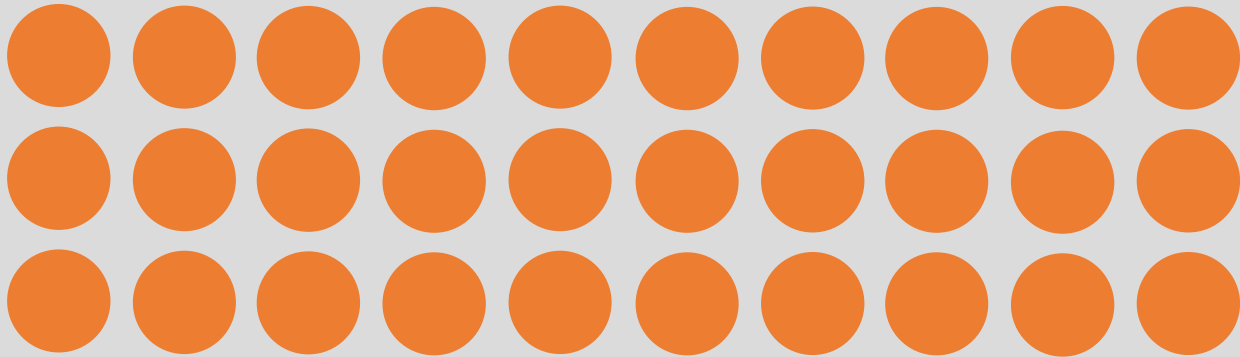
3×2
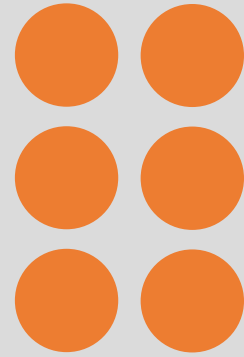
We do

3 × 13

× 3

3 × 10
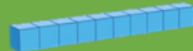
3 × 3

You do
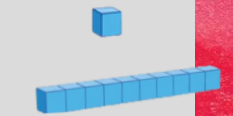
3×11

3×1

3×10

× 1
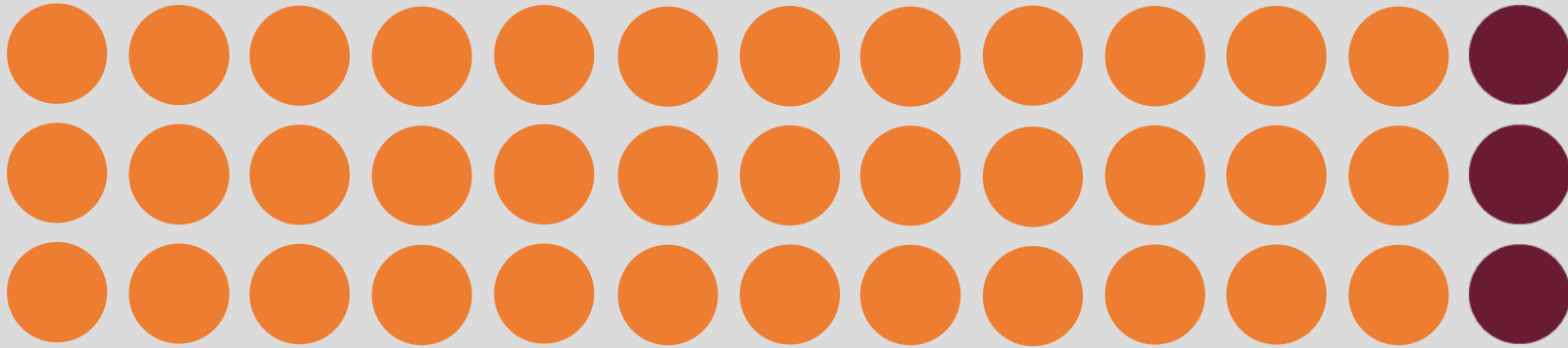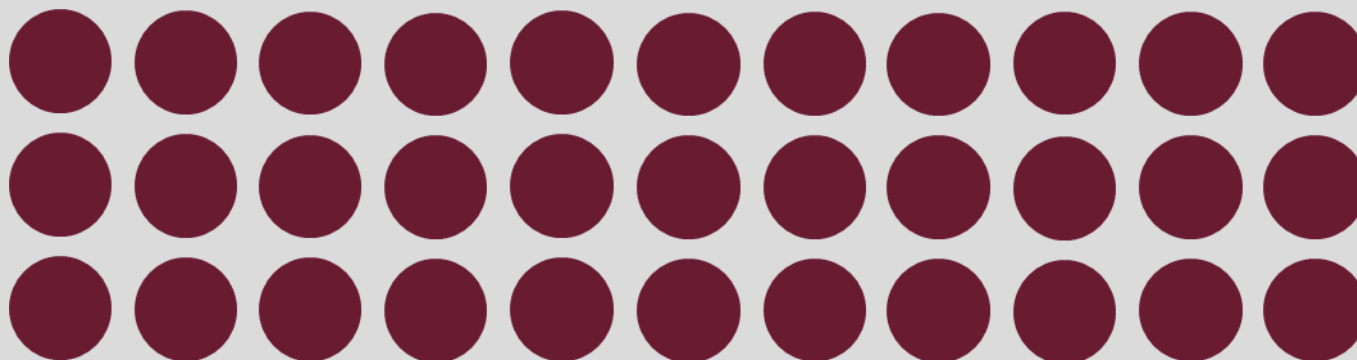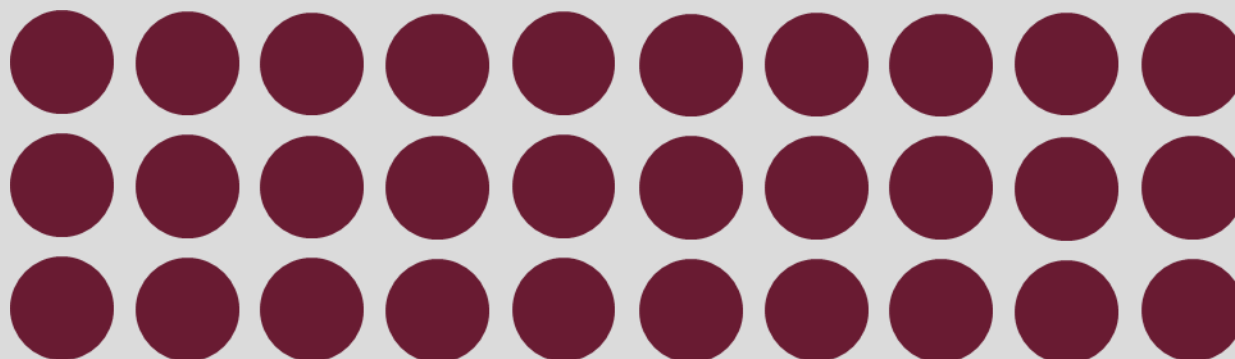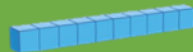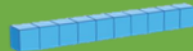
$3 \times 13 =$

How can you represent this calculation using Dienes blocks?

So this is 1x13

I need 3 x 13

Which strategy is easiest?

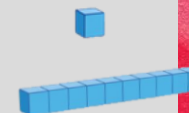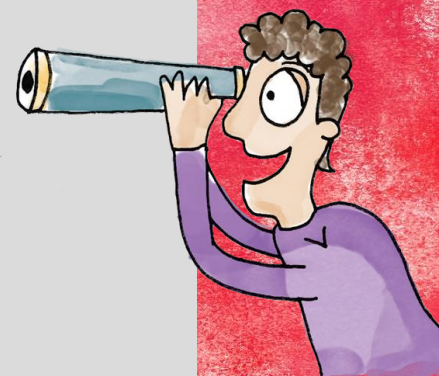| Tens	Ones

We do

$3 \times 12 =$

How can you represent this calculation using Dienes blocks?

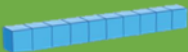So this is 1x12

I need 3 x 12

Solve it!

Tens	Ones

3 × 11 =

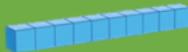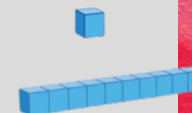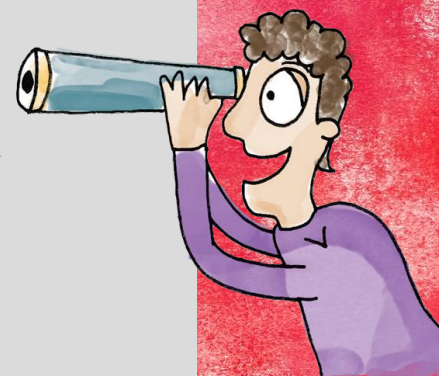How can you represent this calculation using Dienes blocks?

So this is 1x11

I need 4 x 11

Solve it!

Tens	Ones

Assignment

Go and find your assignment in the general folder.

Choose your chilli.

Click the Editing button so you can type straight onto your task sheet. If you can't write on the assignment sheet you can copy it onto paper and take a photograph of it.