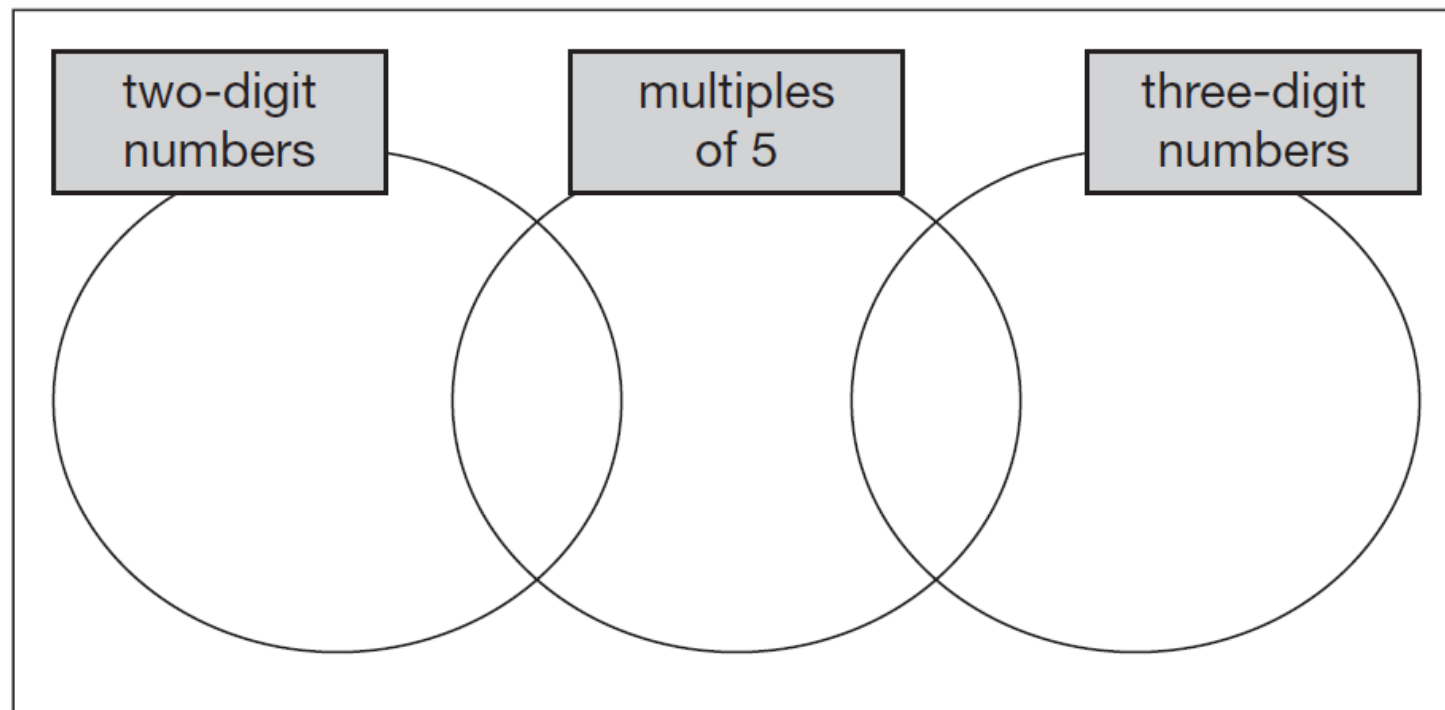


RECALL



Write **each** number in its correct place on the diagram.

2 20 201 2000



RECALL



Draw lines to match the factor pairs of 30.
Which pair is the odd one out?

4

10

5

9

3

6

Guided Practice - Together

We can use times tables to help us find common factors.

12 15 = Common Factors

- If 12 and 15 are in the same times table, that means that number is a common factor.

So, what times tables
are 12 and 15 both in?

How could we show
this in an array?

1	2	3
4	5	6
7	8	9
10	11	12

Guided Practice - My Turn



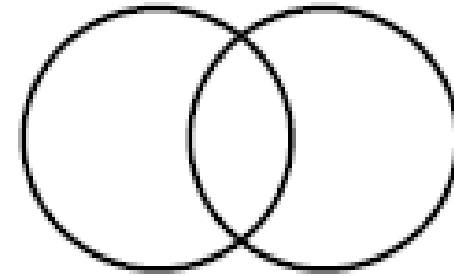
- ▶ We can also use Venn diagrams to help us by writing all the factors of each number
- ▶ 1 is a common factor in every number so I will start with the two times table instead.

The factors of 20 are:

The factors of 24 are:

The common factors between 20 and 24 are:

Fill in the Venn diagram to show the factors of 20 and 24



Where are the common factors of 20 and 24?



How would I represent this using an array?

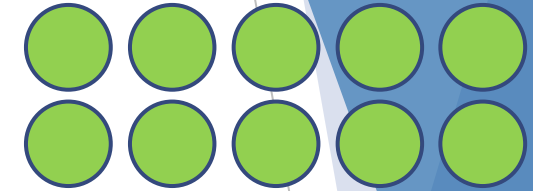


Can you represent using a factor bug?

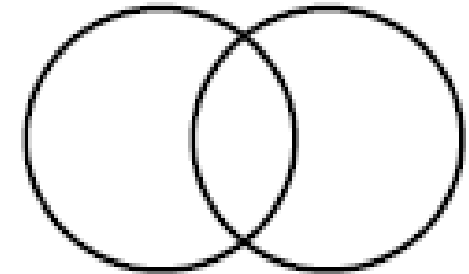
Guided Practice - Your Turn



Represent the common factors of 8 and 12 using an array and a Venn diagram.



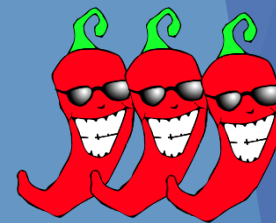
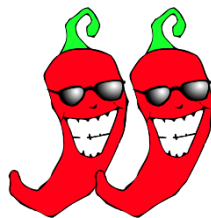
Write the common factors of 8 and 12.



Now try with 15 and 25.



Can you represent using a factor bug?



Chilli 1	Chilli 2	Chilli 3
Use factor bugs to find the common factors of: a) 4 and 16 b) 15 and 40 c) 12 and 36	Use Venn Diagrams to find the common factors of: a) 8 and 32 b) 15 and 20 c) 9 and 54	Draw arrays to find the common factors of: a) 20 and 80 b) 32 and 96



DIVE DEEPER 1

1)

Write **all** the common multiples of 3 and 8 that are **less than 50**

True or False?

- 1 is a factor of every number.
- 1 is a multiple of every number.
- 0 is a factor of every number.
- 0 is a multiple of every number.

3)



I am thinking of two numbers between 70 and 80
The common factors are 1, 2, 4 and 8

What are the two numbers that Teddy is thinking of?

4)

I am thinking of two 2-digit numbers.

Both of the numbers have a digit total of six.

Their common factors are:

1, 2, 3, 4, 6, and 12

What are the numbers?

5)

Kim is thinking of two 2-digit numbers.



Both numbers have a digit sum of 6
Their common factors are 1, 2, 3, 4, 6 and 12

What are Kim's numbers?