Maths

Addition, Subtraction, Multiplication and Division

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Fun Factory

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Aim

- I can identify common factors.

Success Criteria

- I know what 'common factor' means.
- I can identify common factors.

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Multiple Splat

I am going to split the class into 2 groups and then select a person from each group.

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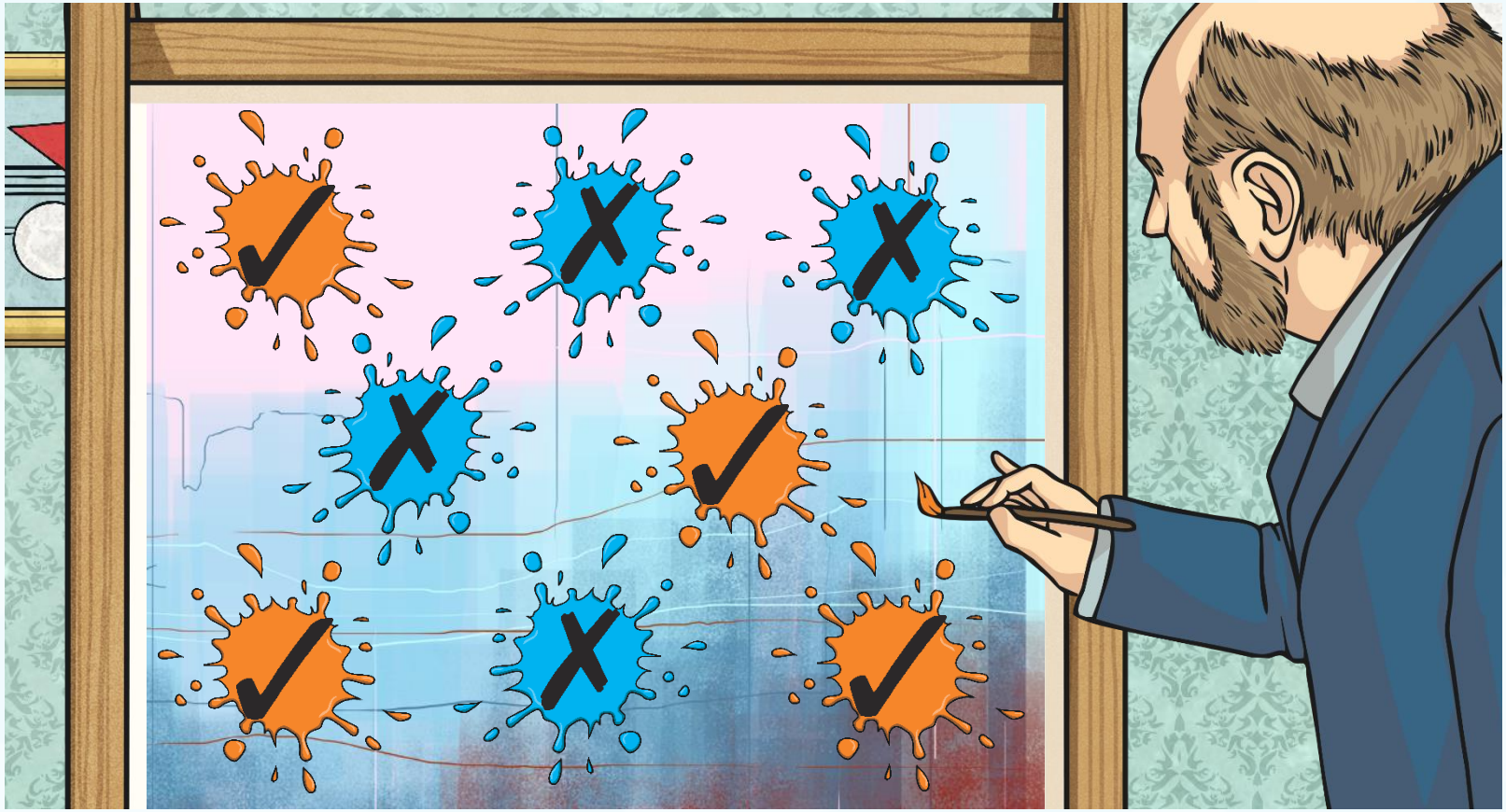
Multiple Splat

Click on the multiples of 12.



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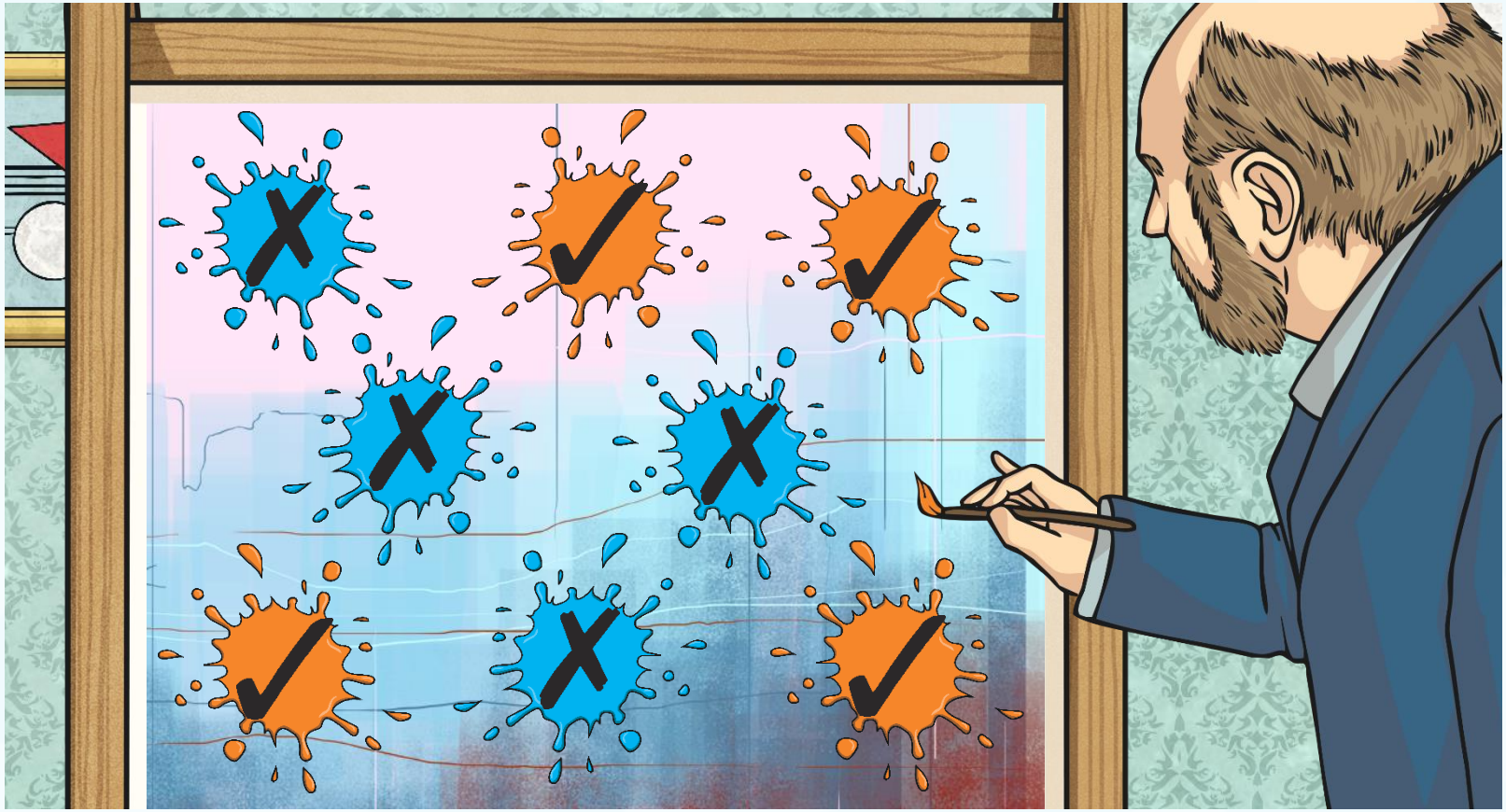
Multiple Splat

Click on the multiples of 7.



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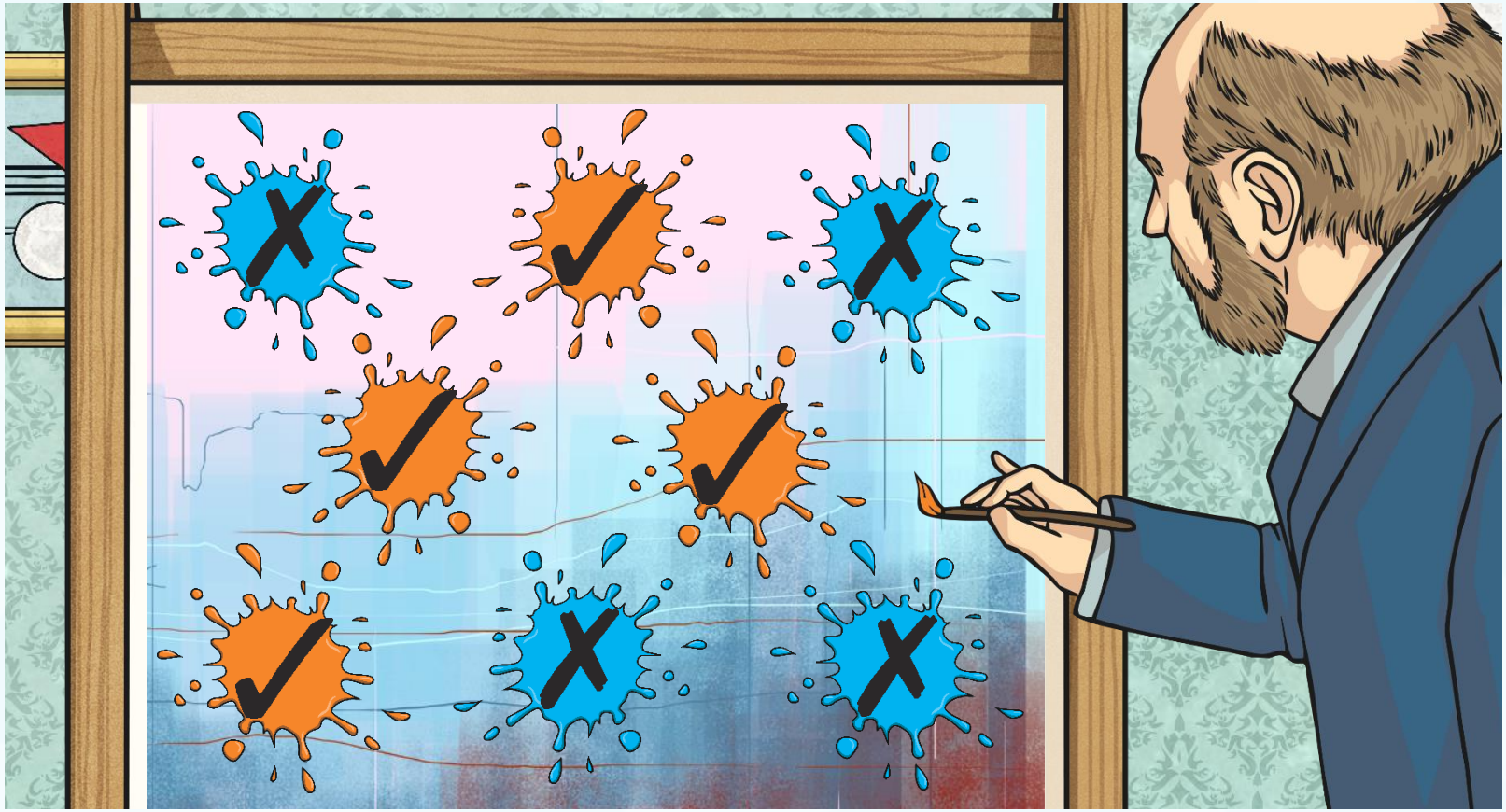
Multiple Splat

Click on the multiples of 4.



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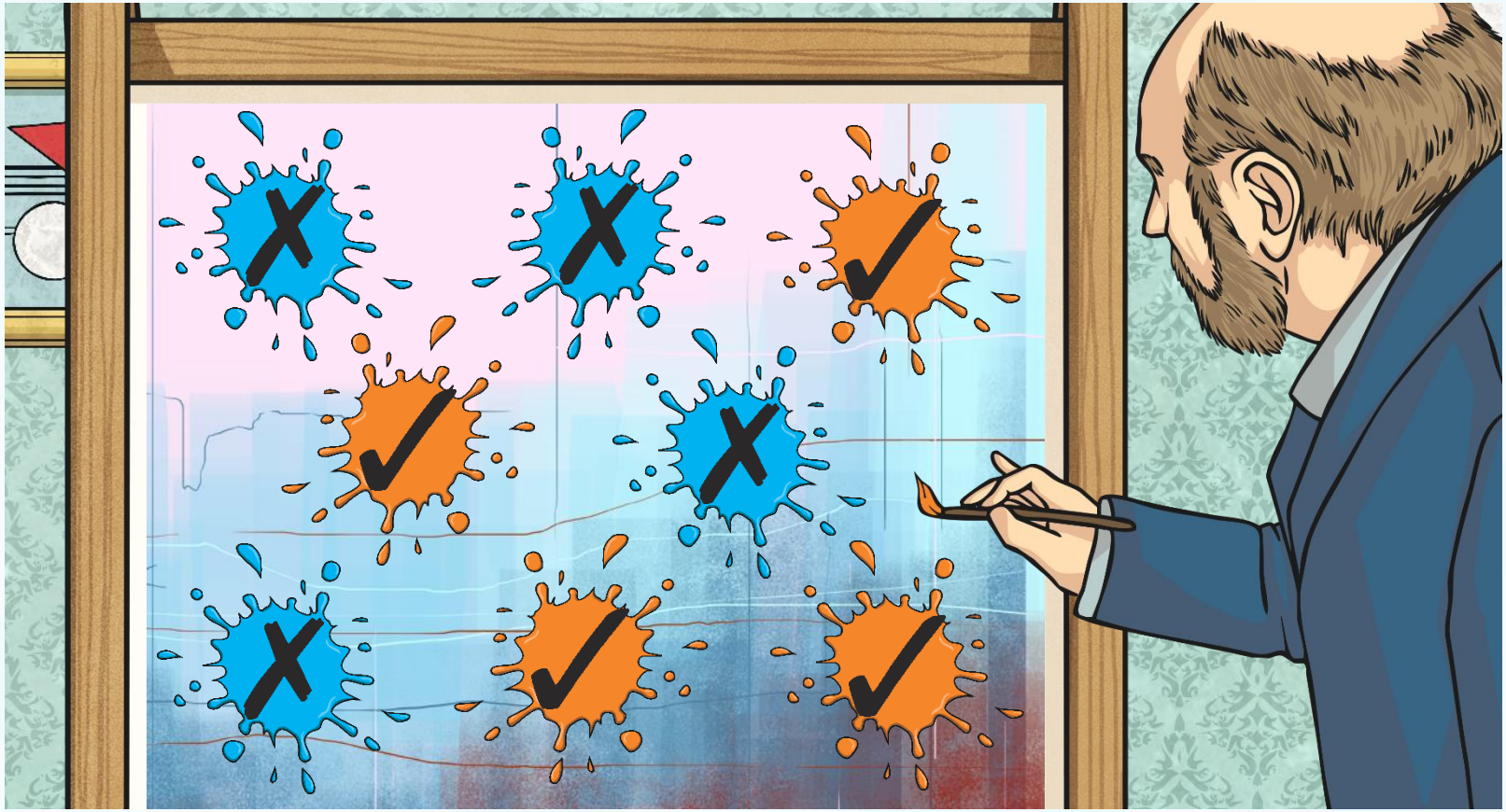
Multiple Splat

Click on the multiples of 15.



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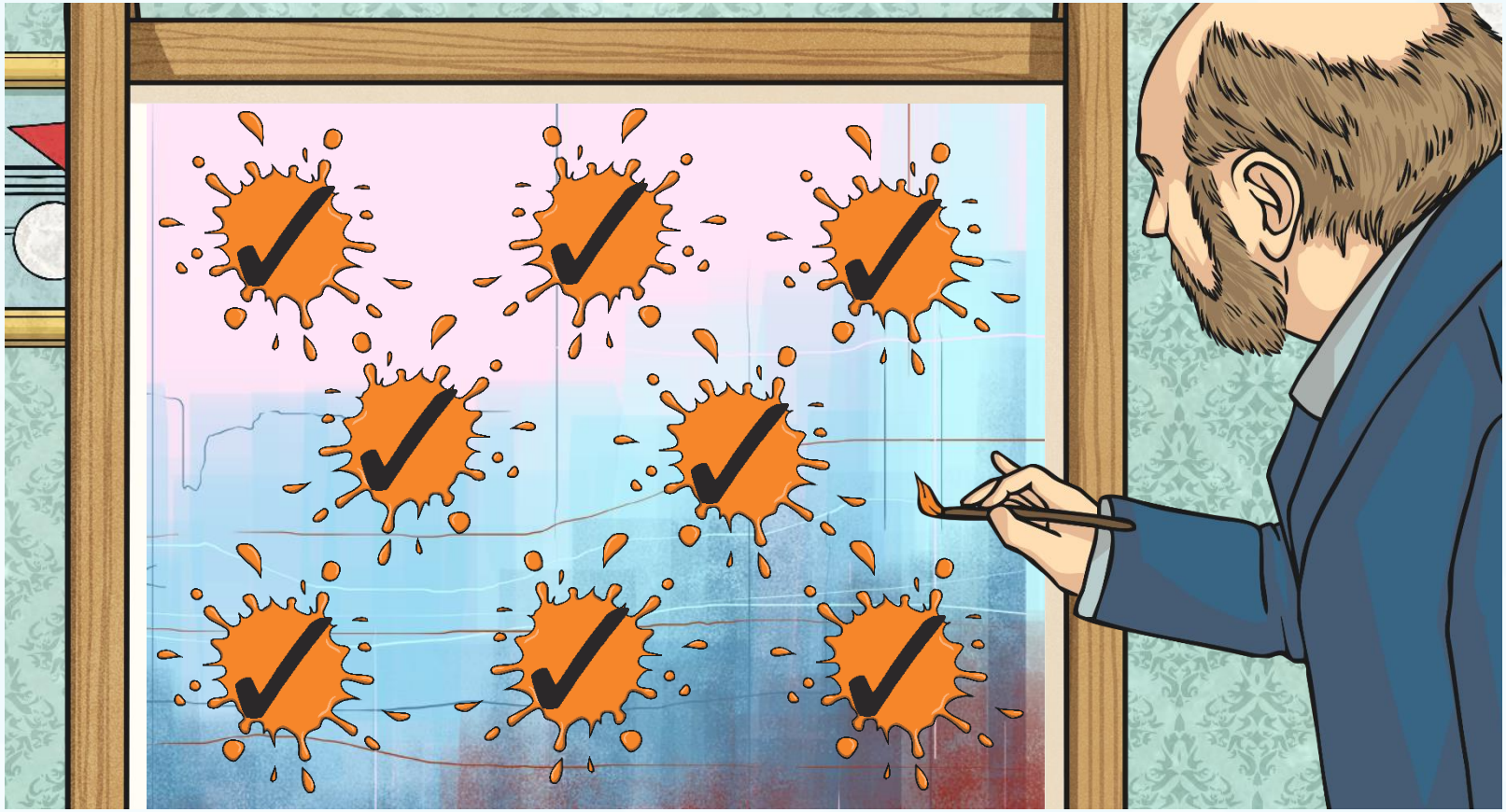
Multiple Splat

Click on the multiples of 2.



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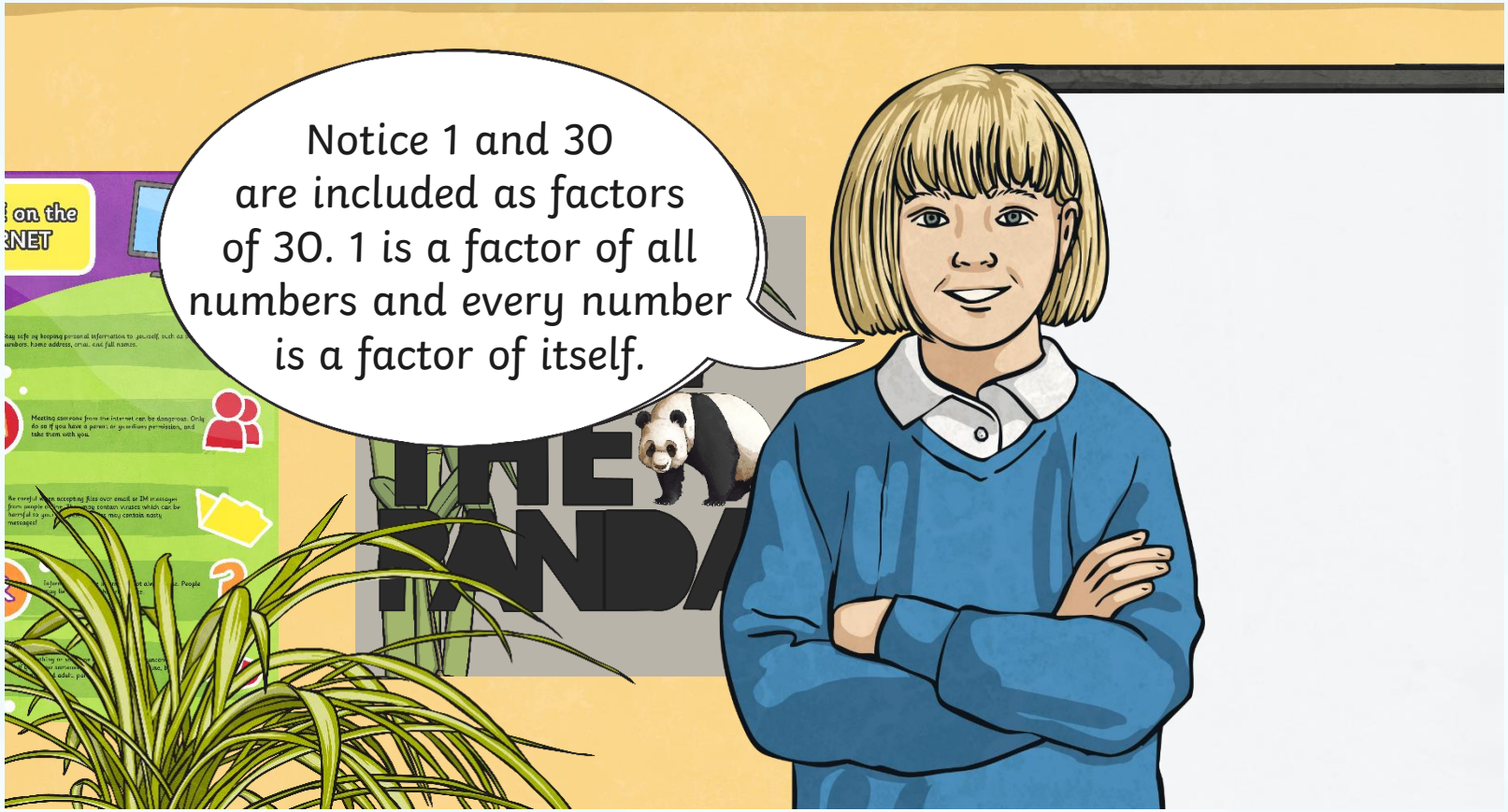
What Is a Factor?

A factor is a number by which another number can be divided exactly.



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What Is a Factor?

A factor is a number by which another number can be divided exactly

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Number Factory

Whole Class

Everybody will need a Factor Card.

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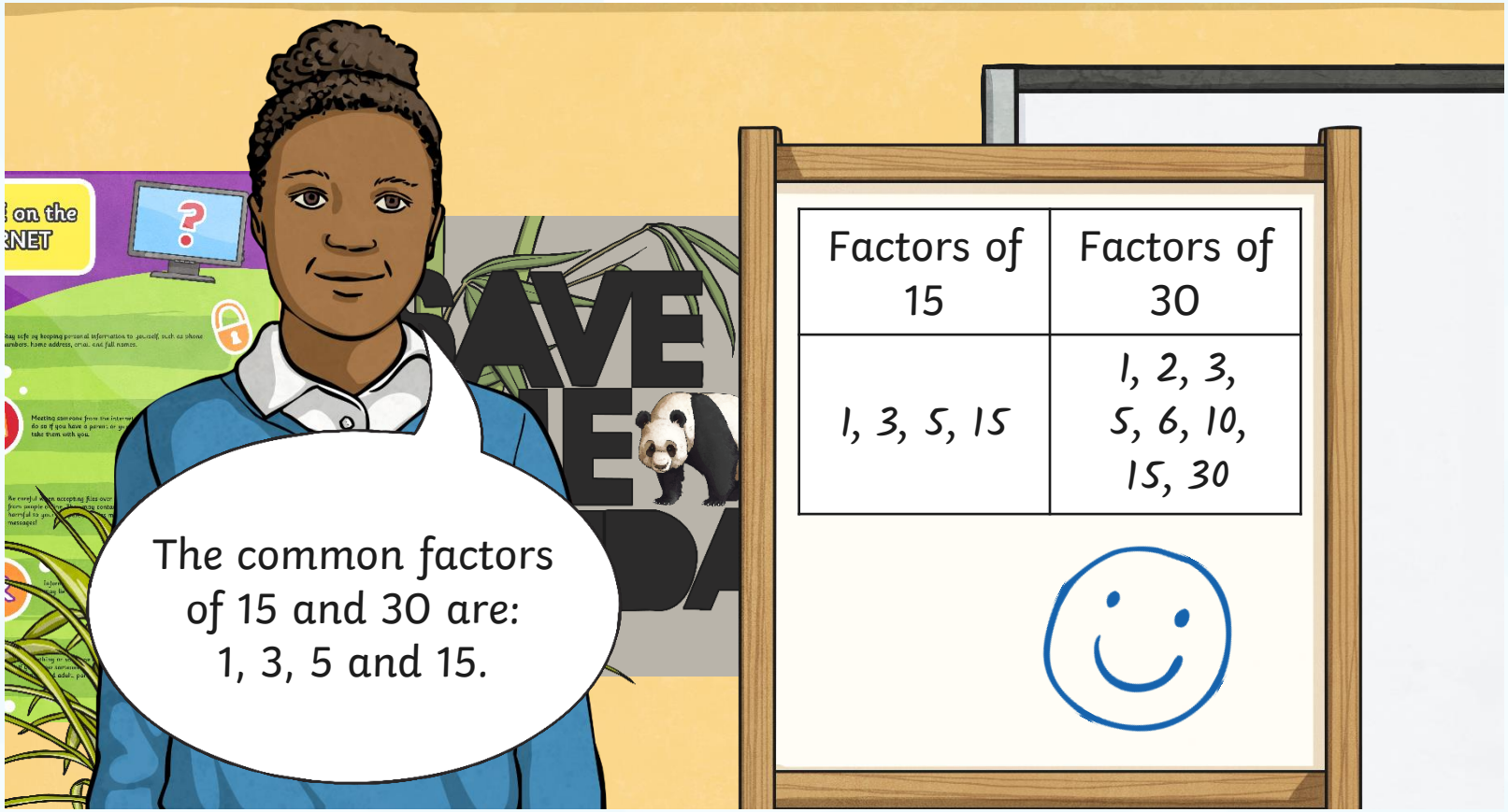
What Is a Common Factor?

A common factor is a factor that is shared with more than one number.



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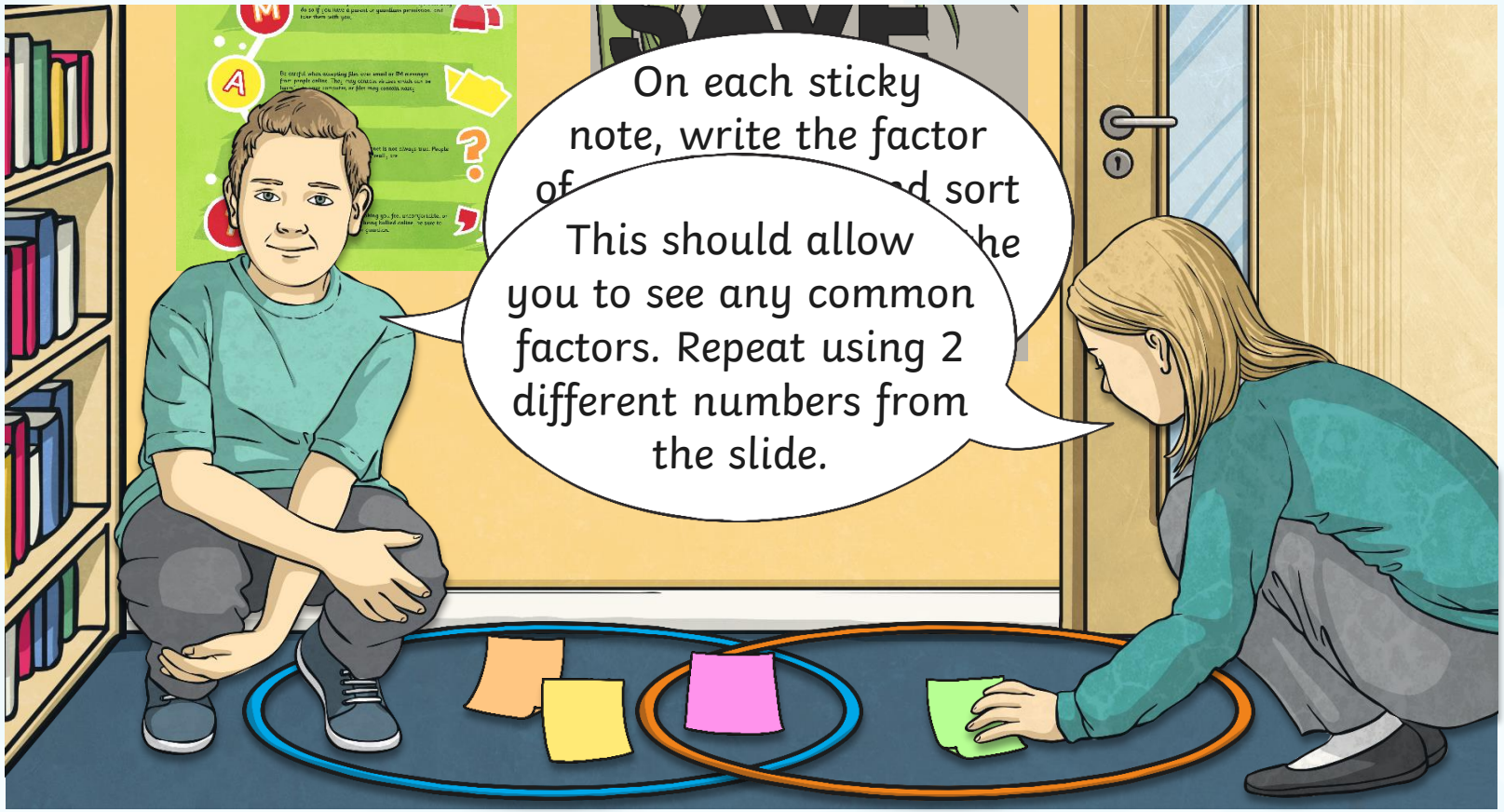
Finding Factors

Select 2 numbers from the next slide.



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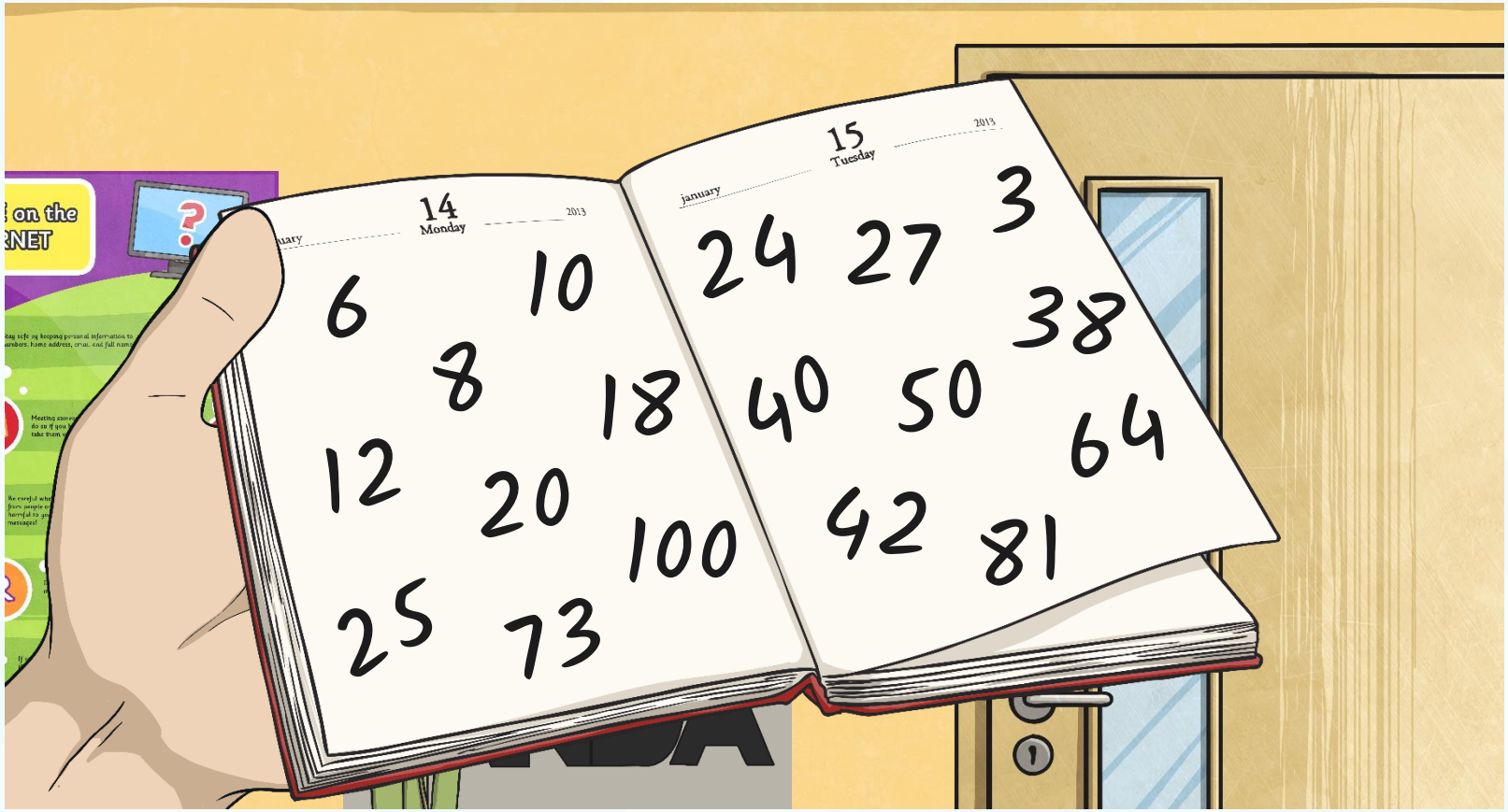
Finding Factors

Select your numbers.



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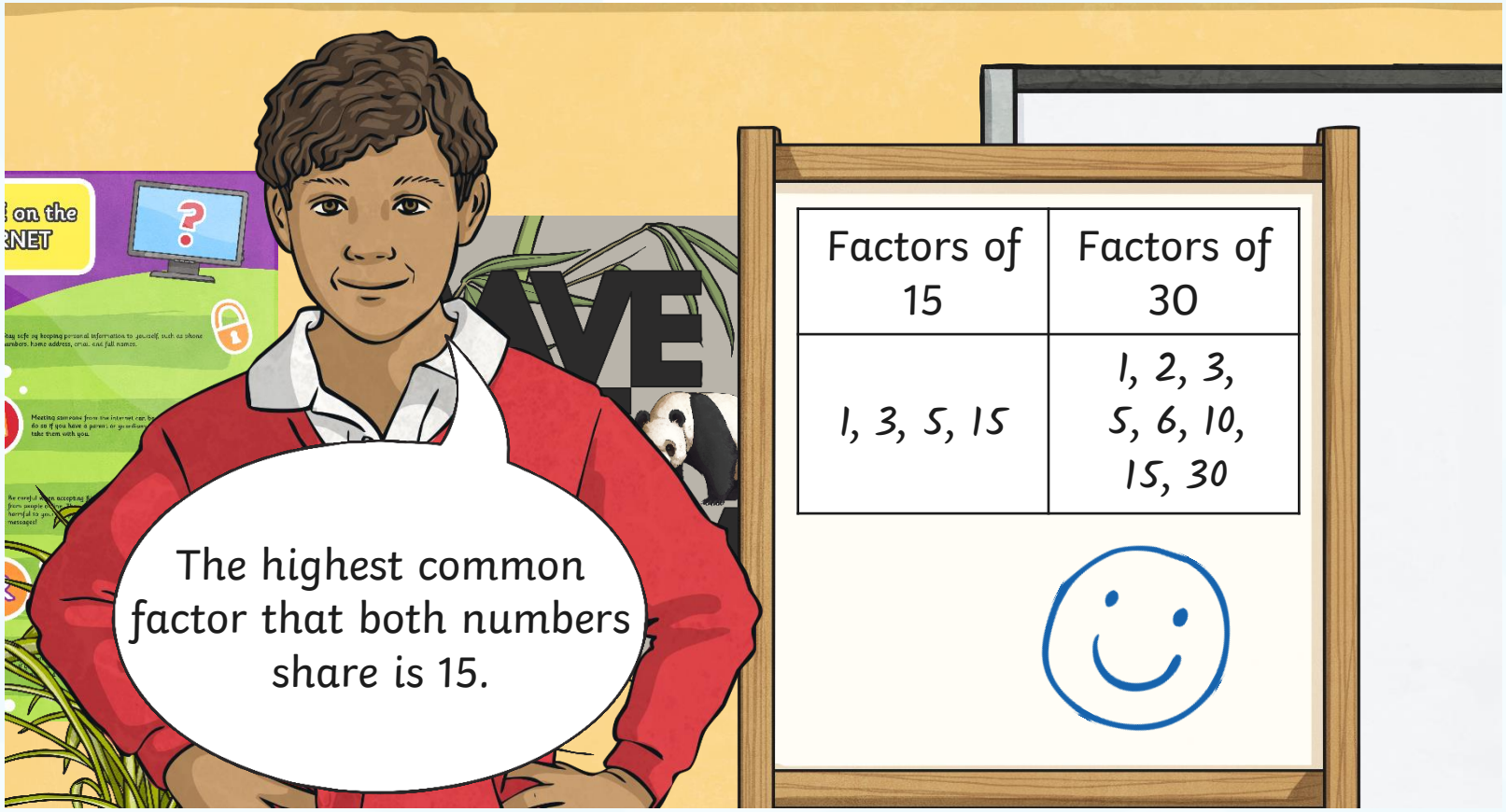
What Is the Highest Common Factor?

The highest common factor (HCF) is the largest common factor that is shared with more than one number.



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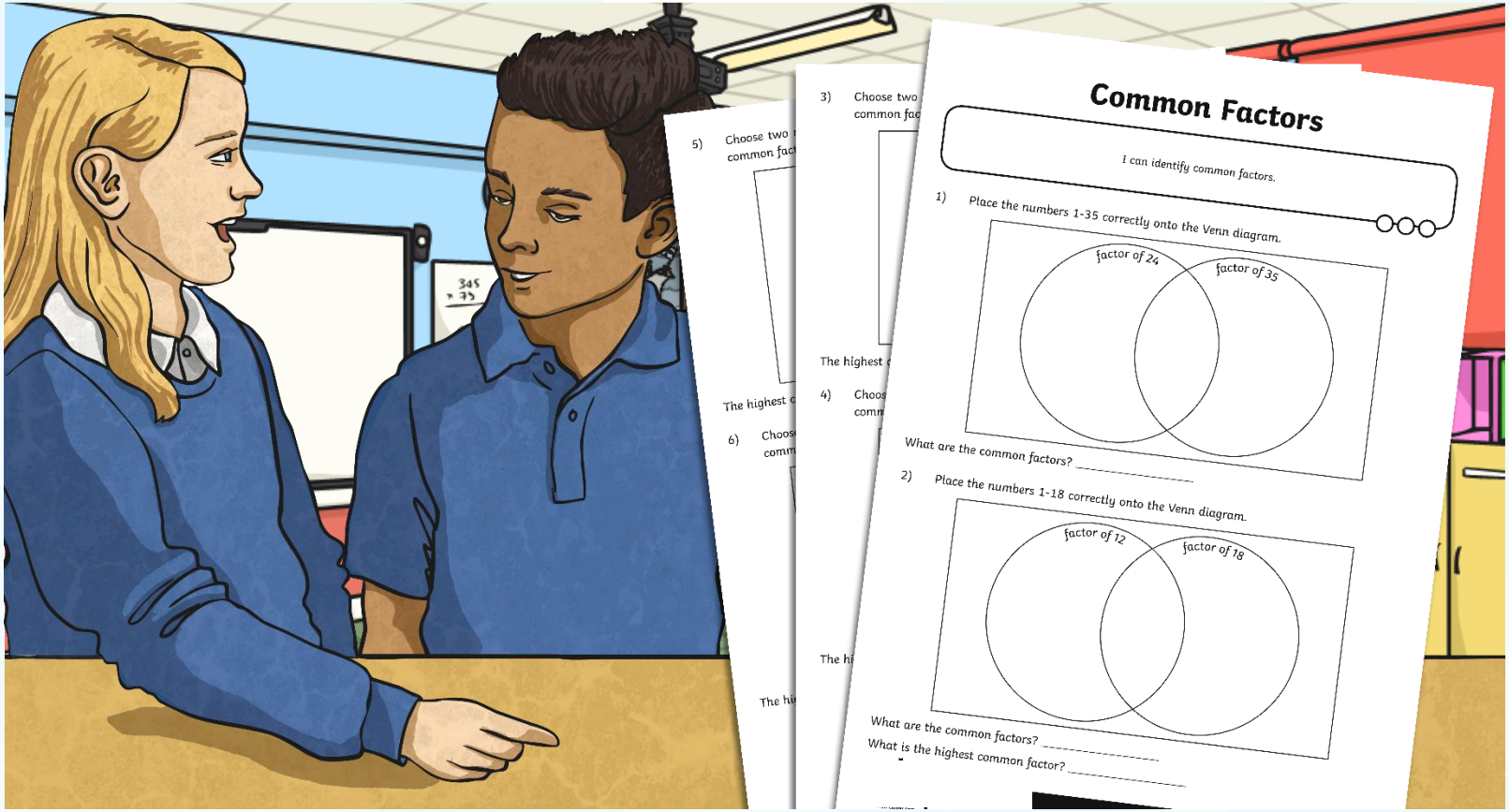
Common Factors

Use your marvellous maths skills to complete these activity sheets:



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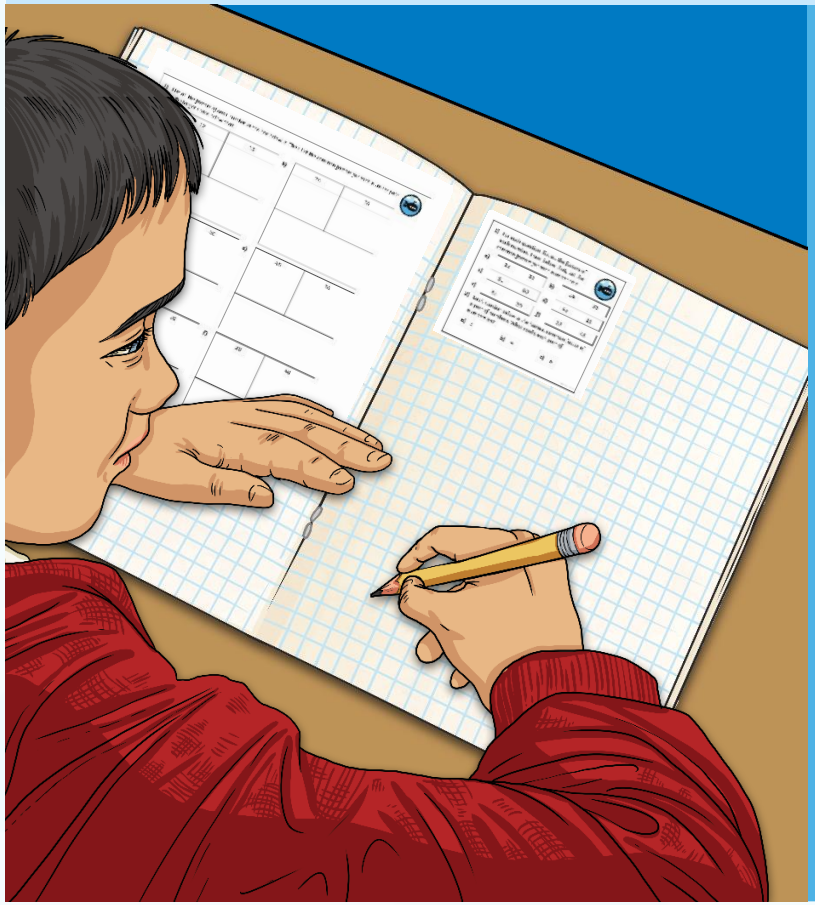
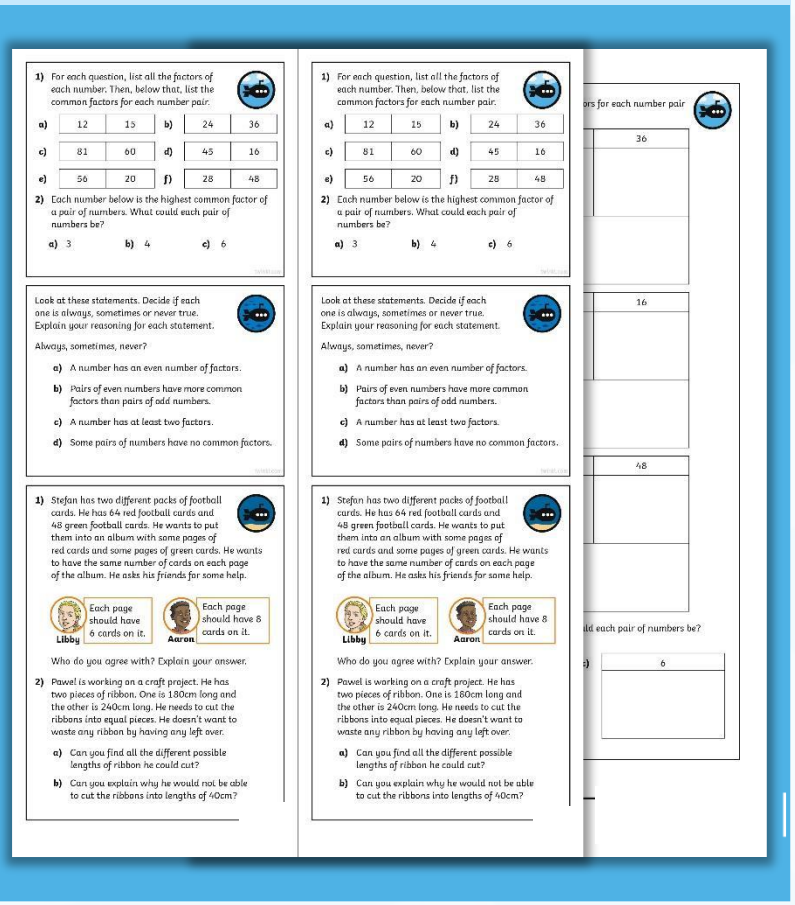
Diving into Mastery

Dive in by completing your own activity!





1) For each question, list all the factors of each number. Then, below that, list the common factors for each number pair.

a)	12	15	b)	24	36
c)	81	60	d)	45	16
e)	56	20	f)	28	48

2) Each number below is the highest common factor of a pair of numbers. What could each pair of numbers be?

a) 3 b) 4 c) 6

Look at these statements. Decide if each one is always, sometimes or never true. Explain your reasoning for each statement.

Always, sometimes, never?

a) A number has an even number of factors.

b) Pairs of even numbers have more common factors than pairs of odd numbers.

c) A number has at least two factors.

d) Some pairs of numbers have no common factors.

1) Stefan has two different packs of football cards. He has 64 red football cards and 48 green football cards. He wants to put them into an album with some pages of red cards and some pages of green cards. He wants to have the same number of cards on each page of the album. He asks his friends for some help.

Libby: Each page should have 6 cards on it.

Aaron: Each page should have 8 cards on it.

Who do you agree with? Explain your answer.

2) Pawel is working on a craft project. He has two pieces of ribbon. One is 180cm long and the other is 240cm long. He needs to cut the ribbons into equal pieces. He doesn't want to waste any ribbon by having any left over.

a) Can you find all the different possible lengths of ribbon he could cut?

b) Can you explain why he would not be able to cut the ribbons into lengths of 40cm?

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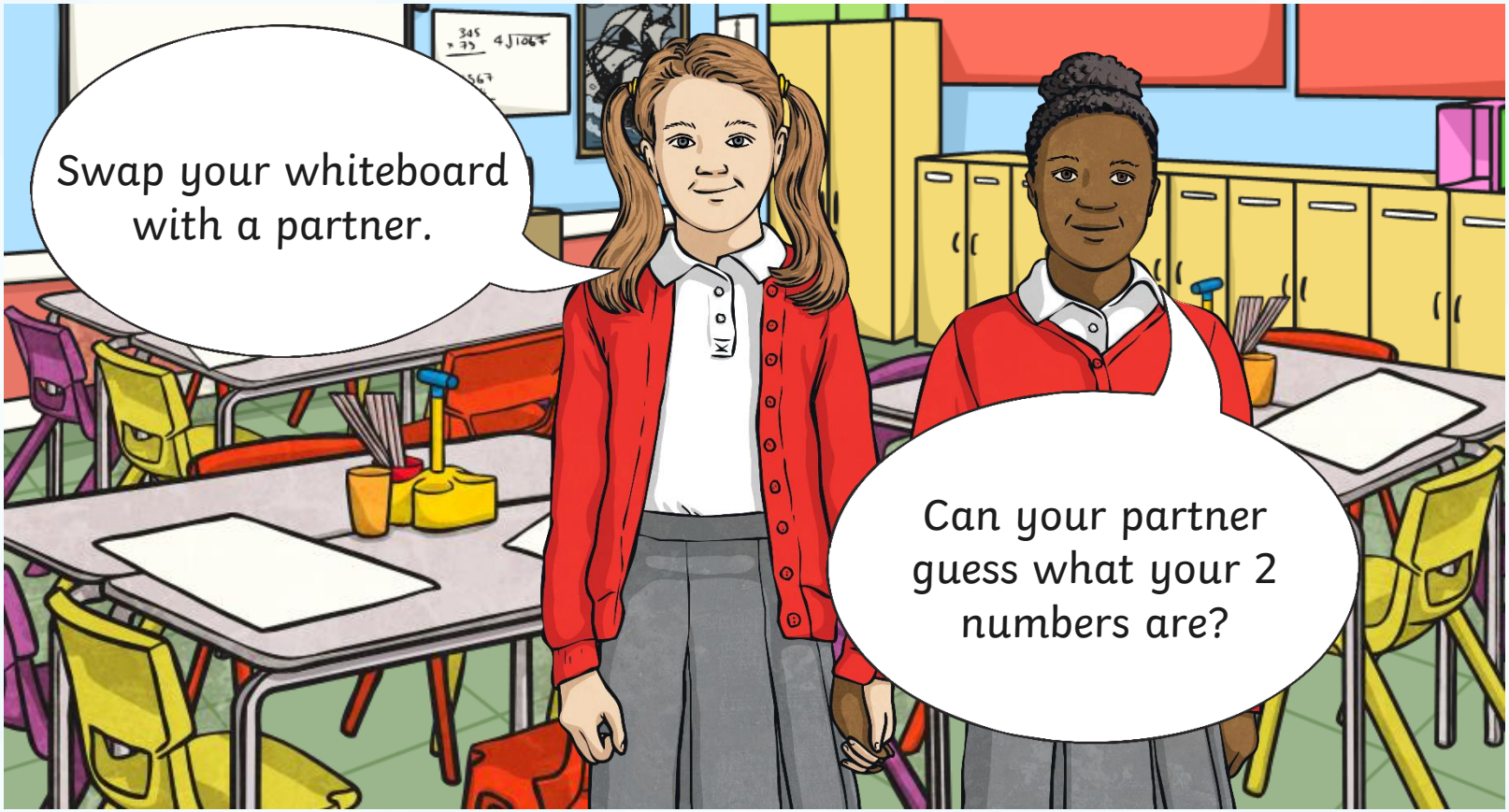
What Am I?

In pairs, think of two numbers and then write their highest common factor (HCF) and their lowest common multiple (LCM) on a whiteboard.



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Aim

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Success Criteria

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