

IAL: to identify factors and multiples

<https://www.bbc.co.uk/bitesize/topics/zfq7hyc/articles/zp6wfcw>
<https://www.bbc.co.uk/bitesize/articles/zd8j7nb>

A

Which of these numbers are factors of 50? Circle all the correct answers.

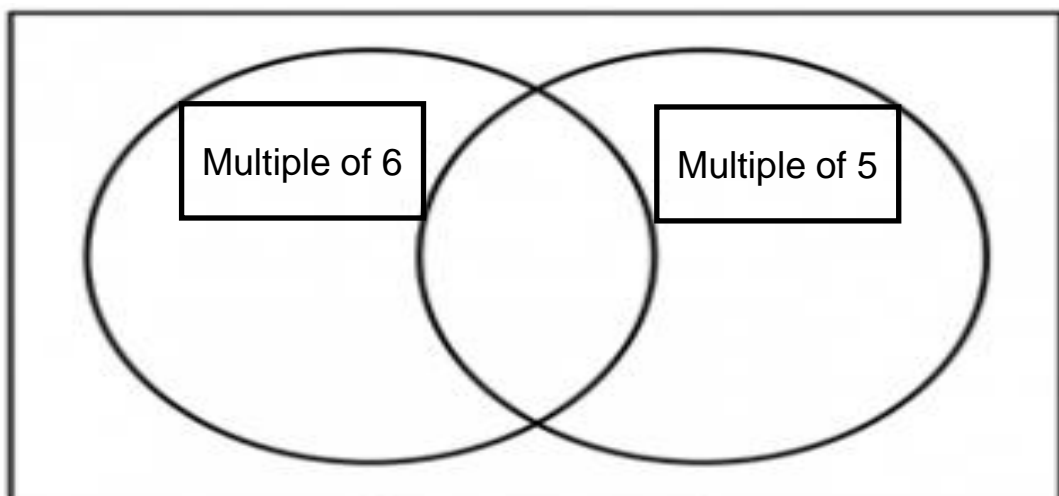
12 5 20 15 25
10 5 6

What are the common factors of 12 and 24?

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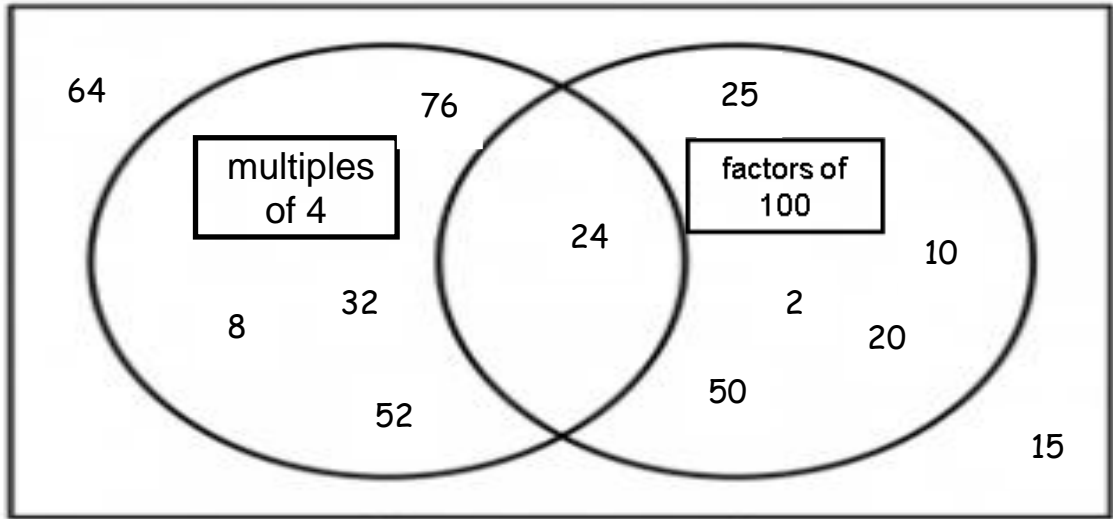
Put these numbers in the correct positions on the Venn diagram

12 36 10 4 20 2 30



B

Some of the numbers have been put in the incorrect place on this Venn diagram. Circle them and write them in the correct place.

**C**

Tick the correct box for each statement.

	Multiples of 5 are also multiples of 10	Square numbers have an even number of factors	All even numbers above 2 have at least three factors
Always	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sometimes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Never	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



My number is between 50 and 80; it only has two factors.

Write all the possible numbers that Virgil could be thinking of.

IAL: to identify common factors, multiples and prime numbers

<https://www.bbc.co.uk/bitesize/topics/zfq7hyc/articles/z2q26fr>

<https://www.bbc.co.uk/bitesize/articles/zd8j7nb>

A

Write all the factors of 30 which are **also** factors of 20

.....

My number is a multiple of 5 and a factor of 100.



Which of these could Sadio's number be? Circle all the correct possible answers.

20	30	55	80	25	50	75
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Which of these are prime numbers? Tick the correct answers.

21		2		10	
	17		15		13
11		12		7	

B

Gumbo says, "Prime numbers can never be even."

Is he right or wrong? Explain how you know.

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Here are three digit cards



Choose two cards each time to make the following two-digit numbers.

an even number

5	6
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a prime number

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a common factor of 60 and 90

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a common multiple of 5 and 13

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C

Is it possible for a multiple of 10 to have prime factors?
Explain your answer.

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This three-digit number has **2** and **7** as **factors**.

2 9 4

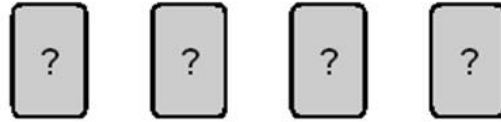
Write another **three-digit** number which has **2** and **7** as **factors**.

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IAL: to solve problems involving multiples

Debbie has a pack of cards numbered from 1 to 20

She picks four different number cards.




Exactly three of the four numbers are multiples of 5

Exactly three of the four numbers are even numbers.

All four of the numbers add up to less than 40

Write what the numbers could be.



Kylie wants to move to a new house, but she refuses to live in a house that has a number which is a multiple of 3 or 5.

In the street she wants to move to, the houses numbered between 100 and 150 inclusive are available to buy.

Which ones could she buy?

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