

Tuesday 21st January

Morning challenge

1) Write down the multiples of 3: 57 95 27 30 65 13

2) What are the factors of 14

3) $4,555 + 555 =$

4) $23,273 + 2000 =$

5) $6,975 - 1,000 =$

6) $567 - 197 =$

7) $6.7 + 2.3 =$

8) $9.3 - 2.7 =$

9) $4 \times 5 =$ $40 \times 5 =$ $400 \times 5 =$

10) $6 \text{ squared} + 4 \text{ squared} =$

Morning challenge – Voyagers (in Maths books)

a) 84

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

b) 102

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

c) 256

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

divisible by 5
and 3

divisible by 3
and 6

divisible by 4
and 8

378

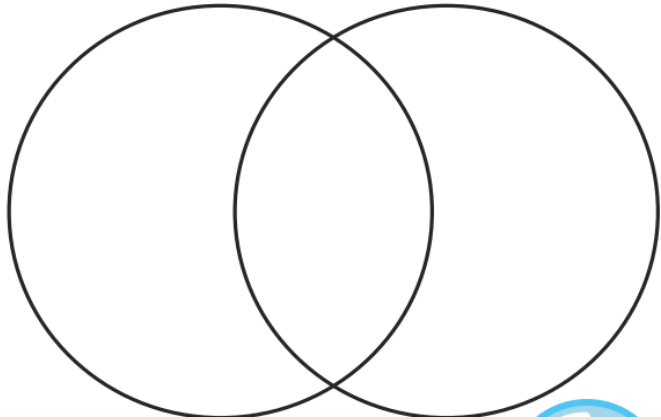
376

375

345, 96, 7425, 15 948, 27, 1578

Divisible by 3

Divisible by 9



Priya

I think 432 will be divisible by 12 because it is also divisible by 3 and 4.



Drew

I think that 111 is divisible by 11 because all of its digits are the same.

All multiples of 10 are multiples of 2 and 5.

All multiples of 2 are multiples of 4.

All multiples of 3 are multiples of 9.

Tuesday 21st January

TBAT: Use direct speech in my writing.

Spelling thief:

m_mb_r_h_p

par_n_rs_i_

ch_mp_on_h_p

d_ctat_rsh__

a_pre_tic_sh_p



Tuesday 21st January

TBAT: Use direct speech in my writing.


What might the Porsche salesman say to Liam?

What might Liam say to the Porsche salesman?


Combine your sentences to create a conversation. Can you add reporting clauses to your direct speech?

Tuesday 21st January

TBAT: Use direct speech in my writing.



Good afternoon, sir,
you have jolly good
taste. Would you like
to test drive this
beauty?




She is a real
beauty! I would like
to take her for a
spin please.

What reporting clauses could you add
to these pieces of direct speech?


Tuesday 21st January

TBAT: Use direct speech in my writing.



Good afternoon, sir,
you have jolly good
taste. Would you like
to test drive this
beauty?

Write the conversation in your books
and include reporting clauses.
Can you extend the conversation?



She is a real
beauty! I would like
to take her for a
spin please.

TBAT- identify prime numbers and revise finding factors

Ch:How many degrees in a straight line

1. $31 \times 16 =$

2. $\frac{3}{4} + 0.2 =$

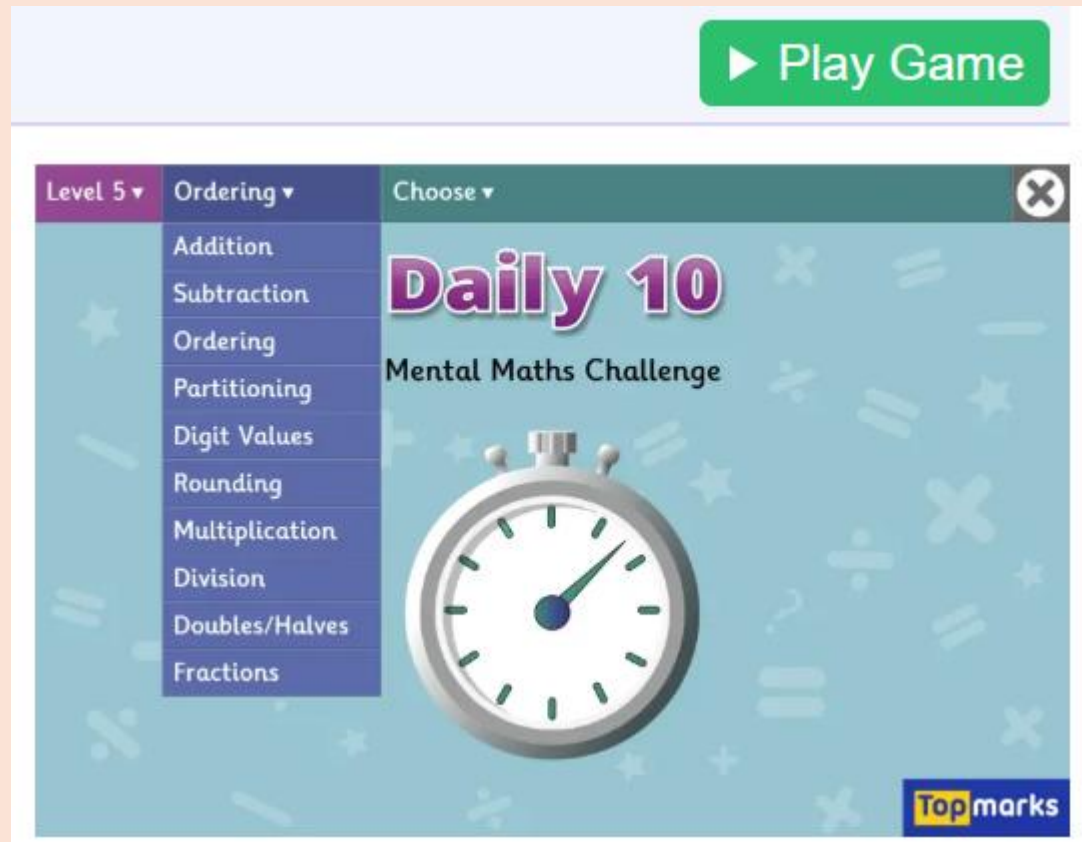
3. **Circle** the Roman numerals which represent

256

CCV LLVI CCLVI

Daily 10 x 11

Daily 10 - Mental Maths Challenge - Topmarks



The screenshot shows the interface for the 'Daily 10' mental maths challenge. At the top right, there is a green button with a play icon and the text 'Play Game'. Below this is a dark green header bar containing three dropdown menus: 'Level 5', 'Ordering', and 'Choose'. A close button (an 'X' in a circle) is located in the top right corner of the header. The main content area has a light blue background with faint mathematical symbols like stars, plus signs, minus signs, and equals signs. In the center, the text 'Daily 10' is written in a large, bold, purple font, with 'Mental Maths Challenge' in a smaller black font below it. A silver stopwatch is positioned in the lower center of the main area. On the left side, there is a vertical list of math topics: Addition, Subtraction, Ordering, Partitioning, Digit Values, Rounding, Multiplication, Division, Doubles/Halves, and Fractions. The 'Topmarks' logo is visible in the bottom right corner of the interface.

Which of these numbers are divisible by 9?

108 702 63 9

Which of these numbers are divisible by 5?

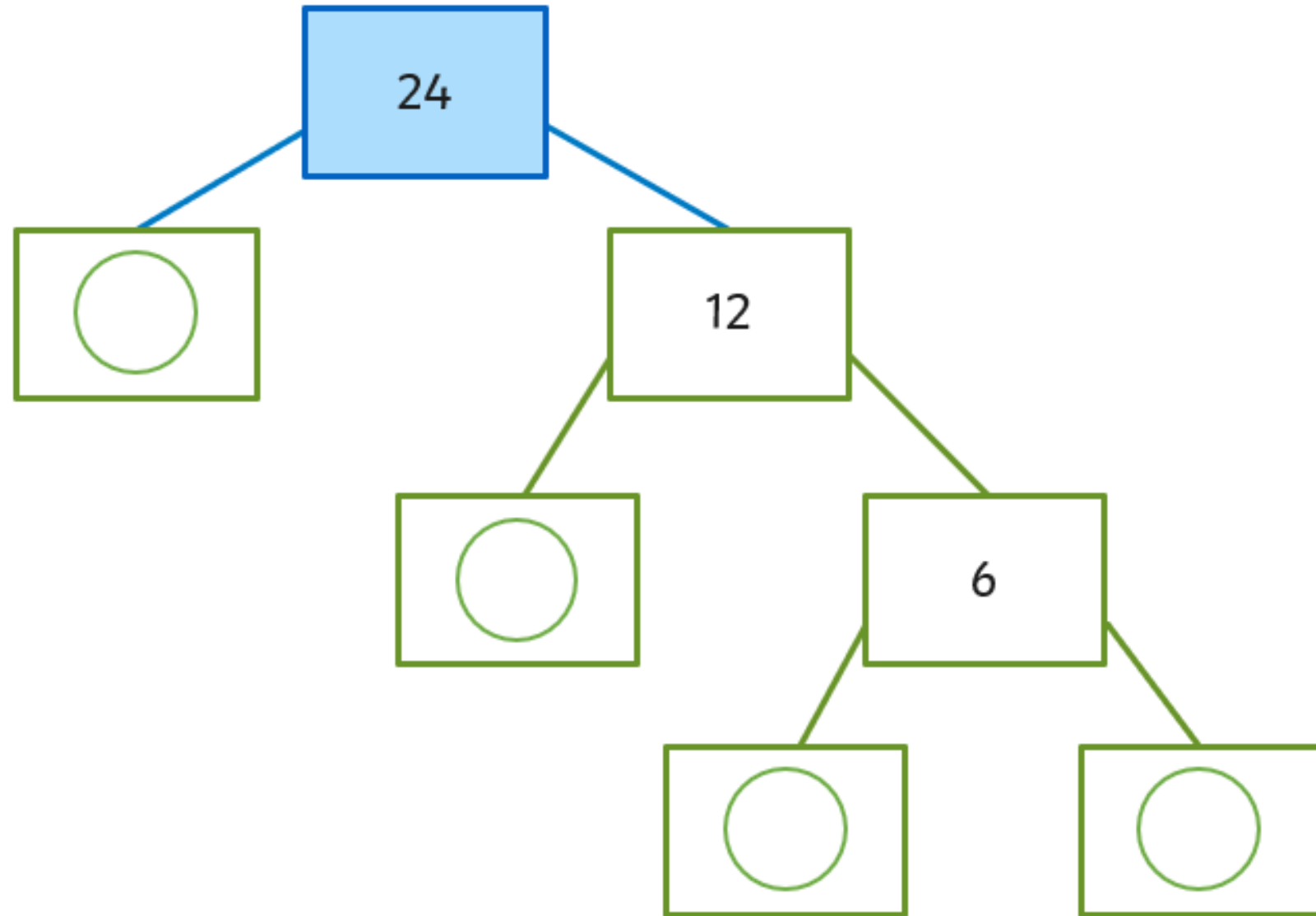
67 105 335 96

Challenge:

The digital root is when you find the _____ of all the digits.

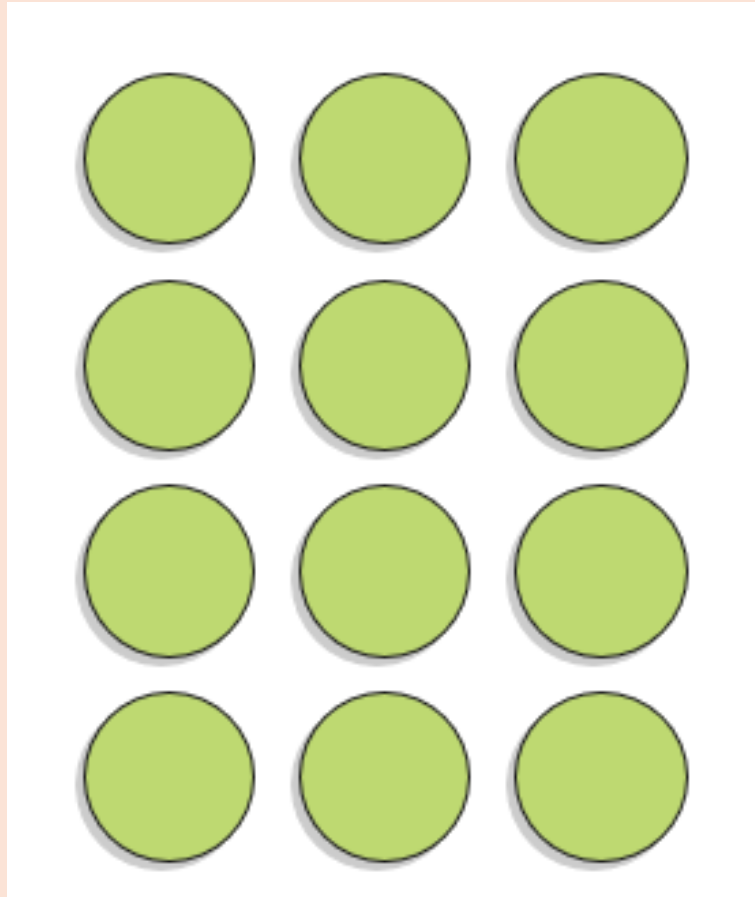
Talk partners:

Use a factor tree to identify the prime factors of 24.




Whiteboard work:

Write multiplication sentences to match this array.



Draw arrays to prove whether the statement is true or not?


Blue



There is only one way to create an array for the number 12.

Is this true? Discuss with a partner.

Green



There is only one way to create an array for the number 16.

Is this true? Discuss with a partner.

Challenge: Does this mean that your number is a prime or a composite?

51 is not the answer to any of the times tables so it is a prime number.



Zeke

Whiteboard work: Draw the table and sort the numbers.

6

18

7

11

22

9

Composite	Prime

Challenge: How does this relate to divisibility rules?

TBAT: Identify prime numbers and revise finding factors

Write all the prime numbers between:

- 1 20 and 30
- 2 30 and 40
- 3 70 and 80
- 4 90 and 100

Are there the same number of prime numbers between each multiple of 10?

Find all the pairs of factors for:

- | | |
|------|-------|
| 5 27 | 8 64 |
| 6 36 | 9 72 |
| 7 45 | 10 51 |





Bartek

All prime numbers are odd because all even numbers have a factor of 2.

1 is a prime number because its only factors are 1 and itself (1).



Drew



Felix

Not all odd numbers are prime numbers.

Challenge:

13 and 31 are both prime numbers.

Can you find another pair of prime numbers with reversed digits?

Mastery:

Bartek reads this statement and knows it is correct but cannot explain why. Help him by explaining it.

The sum of the factors of 20 is greater than the sum of the factors of any prime number less than 40.



Bartek

Tuesday 21st January

TBAT- pathetic fallacy for effect.

2 in 2

1. Match the object to the human quality to complete the sentence.

Object	Human quality
The candle flame	nodded in the wind.
The chocolate cake in the fridge	crept into the classroom.
The party	danced in the dark.
The wallflowers	sang a lonely song.
Along with the teacher, silence	was calling her name.
The wind	died as soon as he left.

2. What effect does the use of personification have on the reader?

Tuesday 21st January

TBAT- pathetic fallacy for effect.

What example of figurative language has been used?

Blue -

The wind whispered through the tress.

Green-

The beautiful flower was yellow like the sun.

Vocabulary

Write the meaning of the highlighted word.

Blue - Liam is an **audacious** boy.

Green - He drove past the **ambling** pensioners.

Activity- write three synonyms for your given word.

Matilda dodgy motor - YouTube

Note down verbs that show his mannerisms:

shuffled charmed

Activity: Replace the three verbs to make your own sentences.

He smirked. He winked. He slinked.

Liam did the opposite to the car salesman;

he winked, I winced; he slinked, I stood.

Task: What is the opposite to the verbs you used?

He **smirked**. He **winked**. He **slinked**.

I **smiled**. I **wincing**. I **stood**.

Write these in box 3.



- **Pathetic fallacy** is *always* about giving **emotions** to something non-human.

- **Personification** is giving *any* human attribute to an object.

- For example, '**The wind whispered through the trees.**' or '**The flowers danced in the breeze.**'

Pathetic Fallacy

- matching feelings to weather

[What is pathetic fallacy? - BBC Bitesize](#)

Match the 'heads' on the left-hand side with their 'tails' on the right to make six examples of pathetic fallacy:

The tree branches...

The gentle breeze...

The stars

Angrily, the...

On its own in the sky...

The fire...

...whispered among the flowers.

...the lonely cloud drifted by.

...storm took its wrath out on the whole town.

...clawed desperately at the window.

...danced its way across the hill.

...winked knowingly down at us.

Blue-

How was Liam feeling about asking for the keys to the Porsche?

Green –

How was Liam feeling when driving the car?

Talk partners: Which type of weather would you associate with excitement and happiness?

Use weather/ natural events that reflect Liam's optimism/excitement about the journey.

glow of _____ sunlight

distant crackle of lightning

rainbow of opportunities

Looking out of the narrow windscreen, I saw a colourful rainbow arching across the sky and beckoning me towards the horizon.

Talk partners: Why is this information effective?

Write a sentence using pathetic fallacy to show that Liam was excited to drive the car.

The sun shone cheerfully...

The wind blew dramatically...

There was a rainbow of opportunities...



This sentence or two will be used in your narrative, so think carefully about how you can portray the characters – add a sentence to box 3.

Tuesday 21st January

TBAT: create a piece of music.

Talk partners: 2 minutes

Blue partner talk first:

How can we describe a piece of music?

*Can you include these words: **dynamics, pitch, tempo**
(be sure to know what these mean)*

Solar system – lesson 1 – activity 3

Tuesday 21st January

TBAT: create a piece of music

SOLAR SONGS

ACTIVITY 3: SPIRAL GALAXY

Listen to *Spiral galaxy*. The arms of the spiral galaxy contain symbols for stars at different stages of their life. How does the audio suggest this? (It is a sequence of sounds at different dynamics.) Which arm of the galaxy is portrayed? (The lower arm.) What is the reason for this answer? (The size and sequence of star symbols matches the sequence of dynamics.)

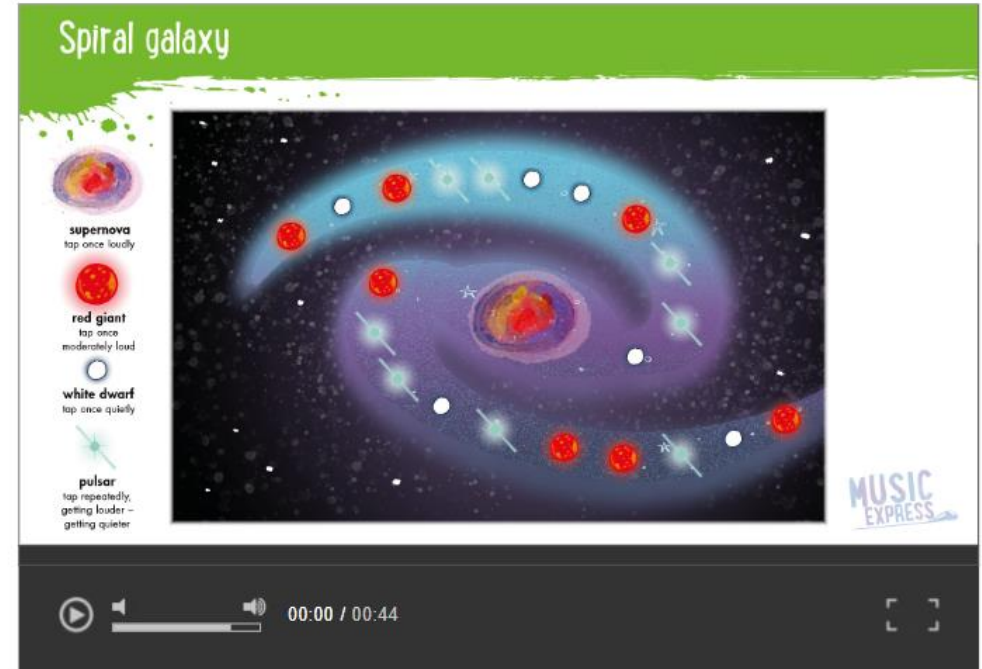
Through class discussion choose instruments with 'star' sound qualities (timbres), e.g. those which make ringing sounds, e.g. triangle, cymbal, tone bar, Indian bells, chime bar.

Divide the class into groups of three and give each group one of the instruments.

Each child in the group works individually, taking turns to use the instrument to play one of the sequences of changing dynamics. Encourage the children to allow the sounds to fade without rushing to play the next sound. Choose volunteers to perform a spiral galaxy sequence to the class. As a game, ask the class to guess which of the galaxy arms was played.

Encourage constructive comments about the performance. Was there a clear contrast in dynamics? Did the music feel hurried, or slow and timeless?

Tech idea: Explore atmospheric sounds in apps such as *Scape* and *Grain Science*.



Q- Who can we trust?

Entry Questions- 2 in 2:

- 1) Give two examples of how you can communicate.
- 2) What is a quality of a good friend?

Talk partners: Is it possible to be a good friend all of the time?

Blue

What would you do if...



you find out all your friends have been invited for a sleepover at your friend's house but you haven't received an invite?

Green

What would you do if...



you were having a party but could only invite six people? You don't want to upset anyone, so how do you choose?

What would you do if...

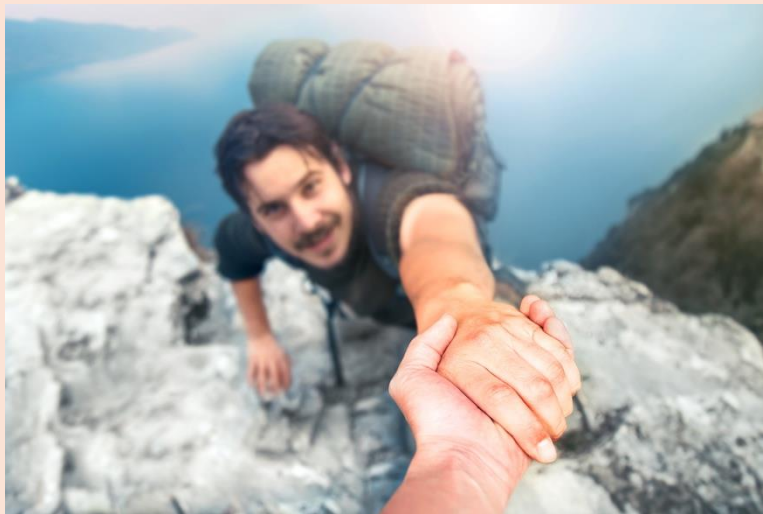


your friends told you to
lie to your parents/carers
about where you
were going?

What is trust?

Write a list of people you trust and why you trust them.

Write your answers on sticky notes and put them on the class whiteboard.



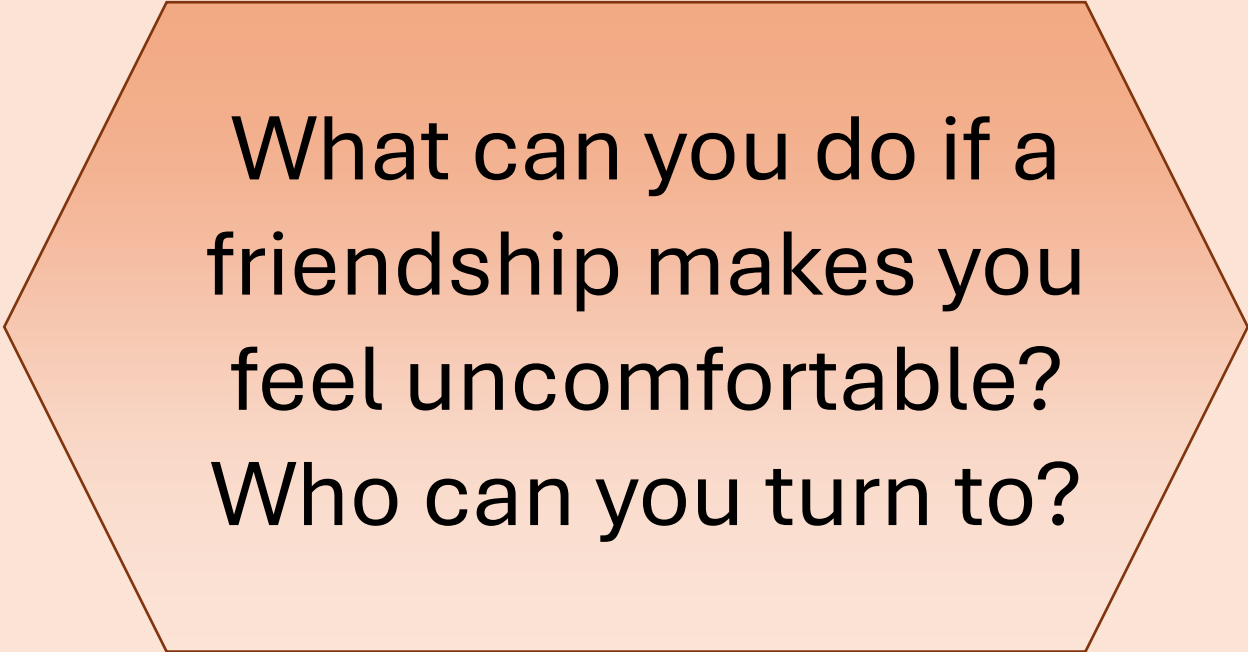
To trust or not to trust?

Think about a time
when you were lied
to. How did you feel?
Were you able to
trust that person
again?

To trust or not to trust?


Have you ever broken
someone's trust?
Were you able to regain their
trust?
What did you have to do to
regain their trust?

To trust or not to trust?



What can you do if a
friendship makes you
feel uncomfortable?
Who can you turn to?

To trust or not to trust?



Can you trust
someone you've
never met?
What about
someone you
meet online?

Online friends

It can be difficult to know if online friends are genuine, here are some signs that they might not be:

1. They seem too good to be true
2. They give gifts
3. They pressure you
4. They want to be kept a secret

More information can be found online.

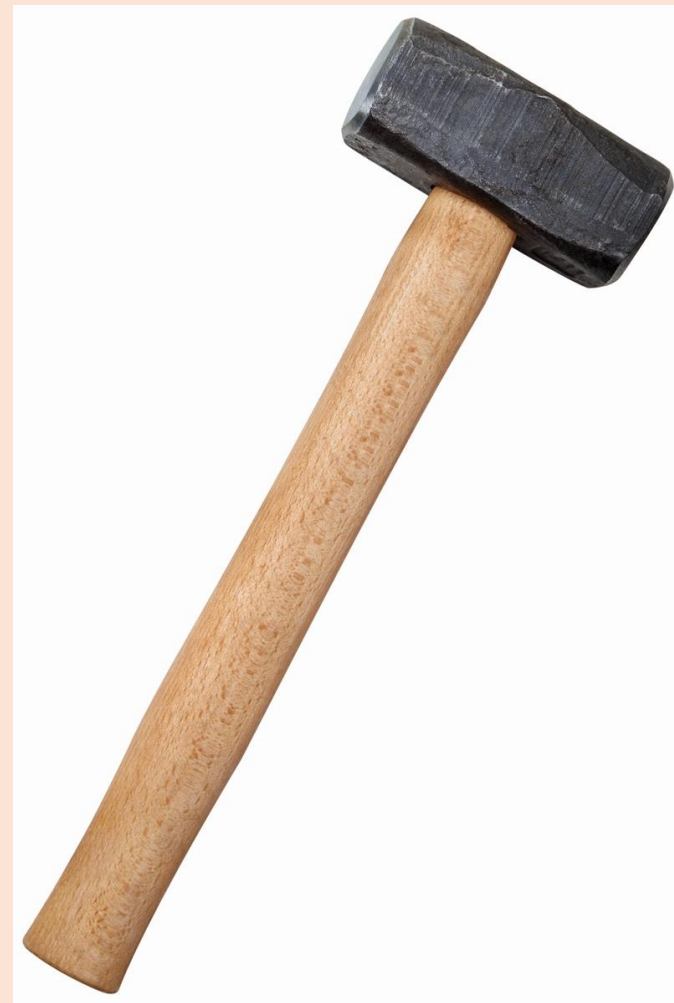


Does this relate to offline friends too?

Where can you go to for help if you're worried about the way that someone is communicating with you online? – Discuss with a partner.

Building and breaking trust

Write ways that you can build trust: eg, telling the truth



Write ways that you can break trust: eg, telling them you will do something and then not.

Geography

Q: What are Asia's natural borders?

3 in 3

1. What is an example of a human feature?

settlements

rivers

climate

mountains

2. How many regions can Asia be split into?

2

4

5

6

3. Which country has the largest population?

Saudi Arabia

Maldives

China

India

Entry Questions

Asia is divided into how many regions? And why?

Name a country in Asia with the highest population.

Challenge: What is the difference between human and physical geography?



What are natural disasters and how do they impact the lives of people living in Asia?



1

What are the key physical features of Asia?

2

What are the key human features of Asia?

3

What are Asia's natural borders?

4

What are tectonic plates?

5

How are mountains formed?

6

How are volcanoes formed?





The key term in this lesson is **natural border**. A natural border is something natural, such as a mountain range or a river, that acts as barrier and separates geographical areas.



What are Asia's natural borders?

Key knowledge

- Borders can be natural.
- Borders can also be human-made.
- A natural border is a natural barrier, such as a mountain range or a river.
- Borders made by people can involve walls, or fences, or just a line painted on the ground.

Key vocabulary

- human-made border
- mountain range
- natural border



What is a border?

A border is something that creates a boundary between geographical regions.

Some borders are **natural borders**.

Other borders can be **human-made borders**. Borders made by people can involve walls, or fences, or just a line painted on the ground.



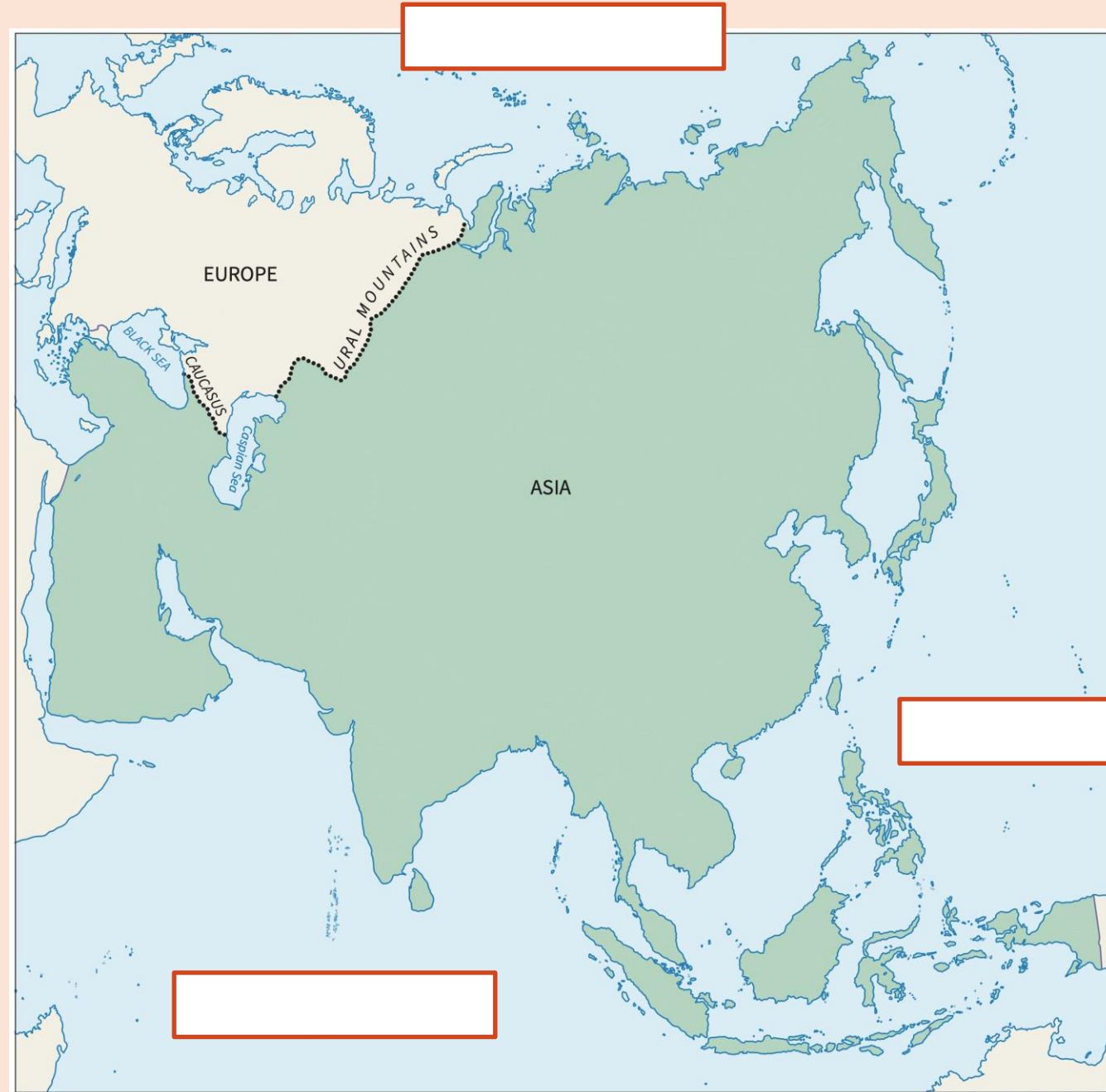
What is a natural border?

A natural border is something natural that acts as barrier and separates geographical areas. These can include oceans, seas, rivers, **mountain ranges**, deserts, and naturally occurring forests.



Use an atlas to label the oceans and answer the question below..

1. Which two continents do the Ural and Caucasus mountain ranges divide?



Use an atlas to label the oceans and answer the question below..

1. Which two continents do the Ural and Caucasus mountain ranges divide?

Europe and Asia



Read the case studies and answer the questions.

Case study – The Ural Mountains

The Ural Mountains, sometimes simply called The Urals, form a natural border between Europe and Asia.

They stretch for 2,500 kilometres (1,550 miles) north to south through Russia starting at the Arctic Ocean.



Case study – The Ural Mountains



Not all mountains are the same age. The Urals are between 250 million and 300 million years old. This makes them some of the oldest in the world.

The highest peak is Mount Narodnaya, or Gora Narodnaya which in Russian means 'People's Mountain'. It stands at 1,895 metres (6,217 feet) high.



Case study – The Caucasus Mountains



The Caucasus Mountains also form a natural boundary between Europe and Asia. They stretch west to east from the Black Sea to the Caspian Sea for 1,200 kilometres (750 miles).

The mountain range is made up of the Greater Caucasus Mountains in the north and the Lesser Caucasus Mountains in the south.



Case study – The Caucasus Mountains

The highest peak in the Caucasus mountain range is Mount Elbrus which is 5,642 metres (18,510 feet) high.

Mount Elbrus has two summits which were both formed by volcanic lava. The eastern summit was reached by mountaineers in 1829, but the western summit wasn't reached until 55 years later in 1874.



Use the information to answer the following questions in full sentences.

1. Which two continents do the Ural and Caucasus mountain ranges divide?

The two continents that the Ural and Caucasus mountain ranges divide are....

2. How far does the Ural mountain range stretch?

3. What is the highest peak in the Caucasus Mountains?

4. Which mountain range stretches from the Black Sea to the Caspian Sea?

Challenge: Explain the difference between a natural border and a human-made border.

Mastery: Find two other natural borders in Asia.



Answer the following:

1. Which two continents do the Ural and Caucasus mountain ranges divide?

Europe and Asia

2. How far does the Ural mountain range stretch?

2,500 kilometres (1,550 miles)

3. What is the highest peak in the Caucasus Mountains?

Mount Elbrus

4. Which mountain range stretches from the Black Sea to the Caspian Sea?

The Caucasus Mountains



What are Asia's natural borders?

Key knowledge

- Borders can be natural.
- Borders can also be human-made.
- A natural border is a natural barrier, such as a mountain range or a river.
- Borders made by people can involve walls, or fences, or just a line painted on the ground.

Key vocabulary

- human-made border
- mountain range
- natural border



Exit Questions:

A natural border is a natural barrier. Give an example of a natural border.

What is a mountain range?