Thursday 12th November
Morning Challenge

YELLOW-SPOTTED LIZARDS

APPEARANCE

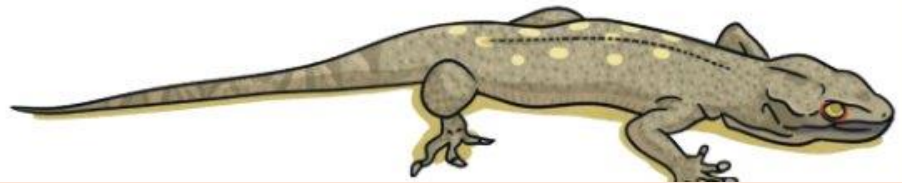
Yellow-spotted lizards (which belong to the reptile family) are around six to ten inches long. They are identified by the eleven yellow spots upon their yellow-green bodies. As they have strong, powerful legs, they are able to leap out of holes when they are searching for their prey.

HABITAT

Generally, the yellow-spotted lizards live in holes as this offers them shade from the scorching sun. Additionally, this location offers protection from predators, such as large birds.

SAFETY

If you see a yellow-spotted lizard, it is imperative that you keep your distance; their venomous bites can cause excruciating pain and are known to be fatal.



QUICK QUESTIONS



1. Draw **four** lines and match each word from the text to its synonym.

imperative	**scorching**	**excruciating**	**powerful**
agonising	**necessary**	**strong**	**sweltering**

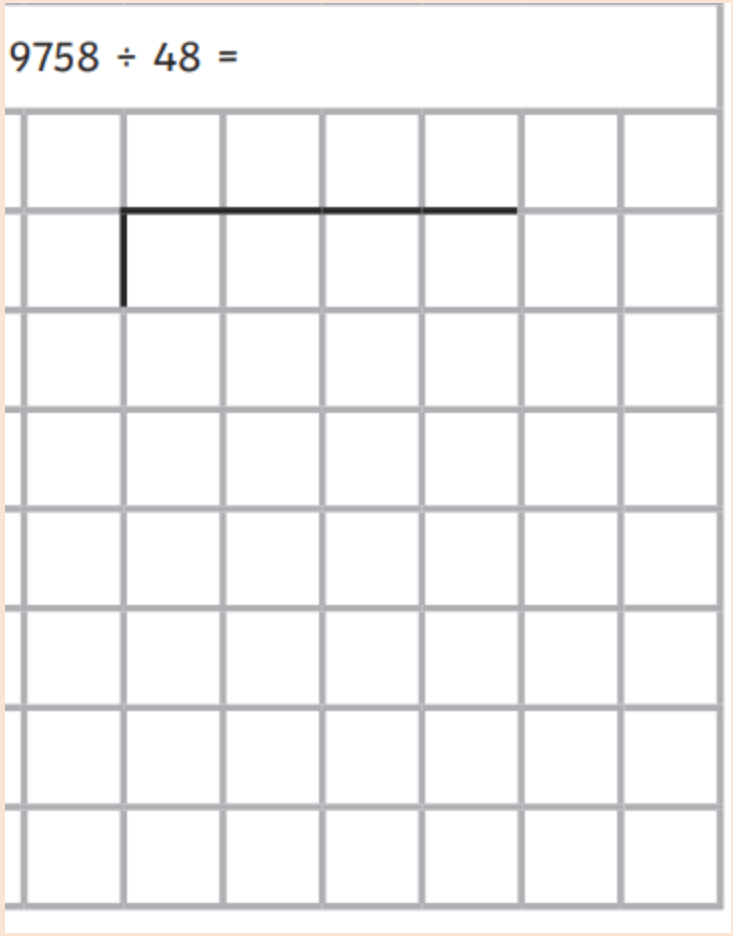
2. How does the organisation of this text help the reader to better understand the information?

3. Why do you think that the author chose to use the word **generally**? Tick one.

- ○ It shows that something rarely happens.
- ○ It shows that something usually happens.
- ○ It shows that something always happens.
- ○ It shows that something never happens.

4. Predict what you think the next sub-heading in this text might be. Explain why you think this.

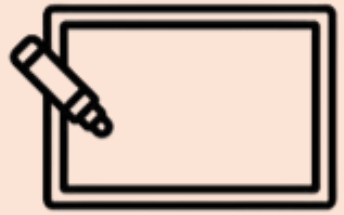
12.11.26
Times tables



Vanilla cupcakes are packed into boxes of 64. Chocolate cupcakes are packed into boxes of 50. There are 6432 vanilla cupcakes and 6731 chocolate cupcakes. How many boxes are needed altogether? How many of each cupcake are left over?

12.11.26

Algebra



$3b + 5 = 11$	$b =$
$14 = 6j - 4$	$j =$
$2k - 5 = 13$	$k =$
$6r + 1 = 19$	$r =$
$10 = 5s + 0$	$s =$

12.11.26

TBAT: calculate the volume of shapes.

3 in 3

1. 456 x 32 =
2. $10^3 - 10^2$ =
3. Chicken must be cooked for 20 minutes per pound. Using this information, complete the table.

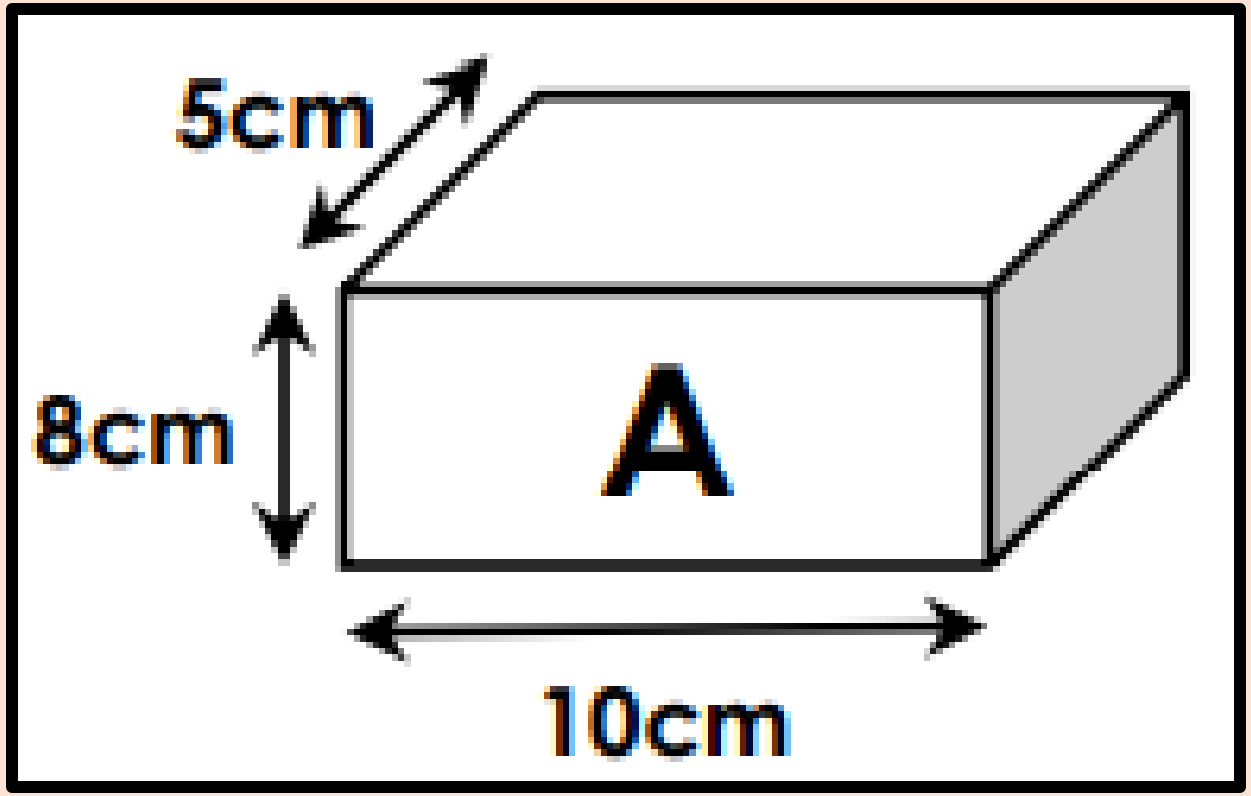
Weight	Start time	Finish time
3 pounds	11.15am	
4.5 pounds		6pm
6.25 pounds	5.30pm	

How many fractions can you think of that are equivalent to 3/8 ?

Daily 10 - Mental Maths Challenge - Topmarks

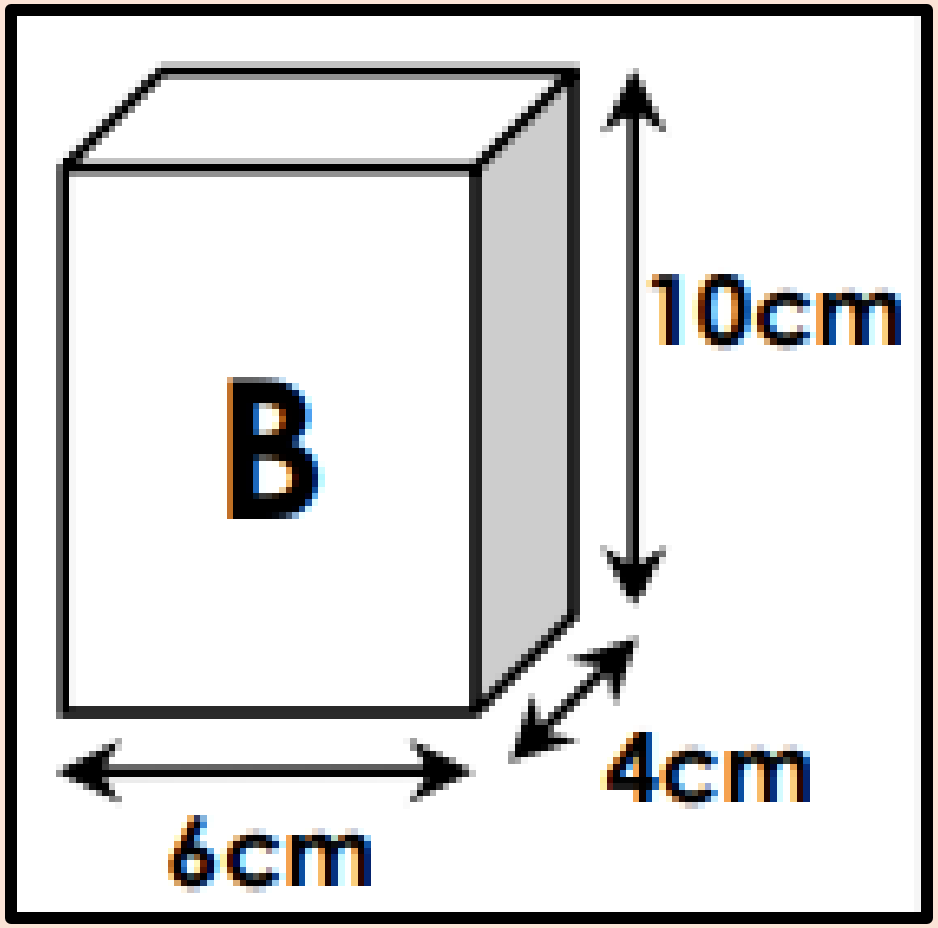
12.11.26

TBAT: calculate the volume of shapes.

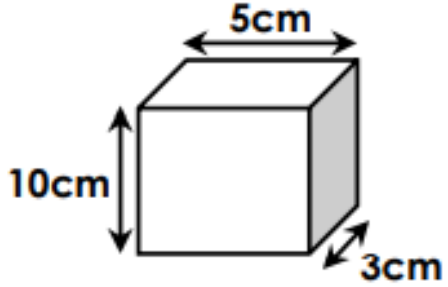


12.11.26

TBAT: calculate the volume of shapes.

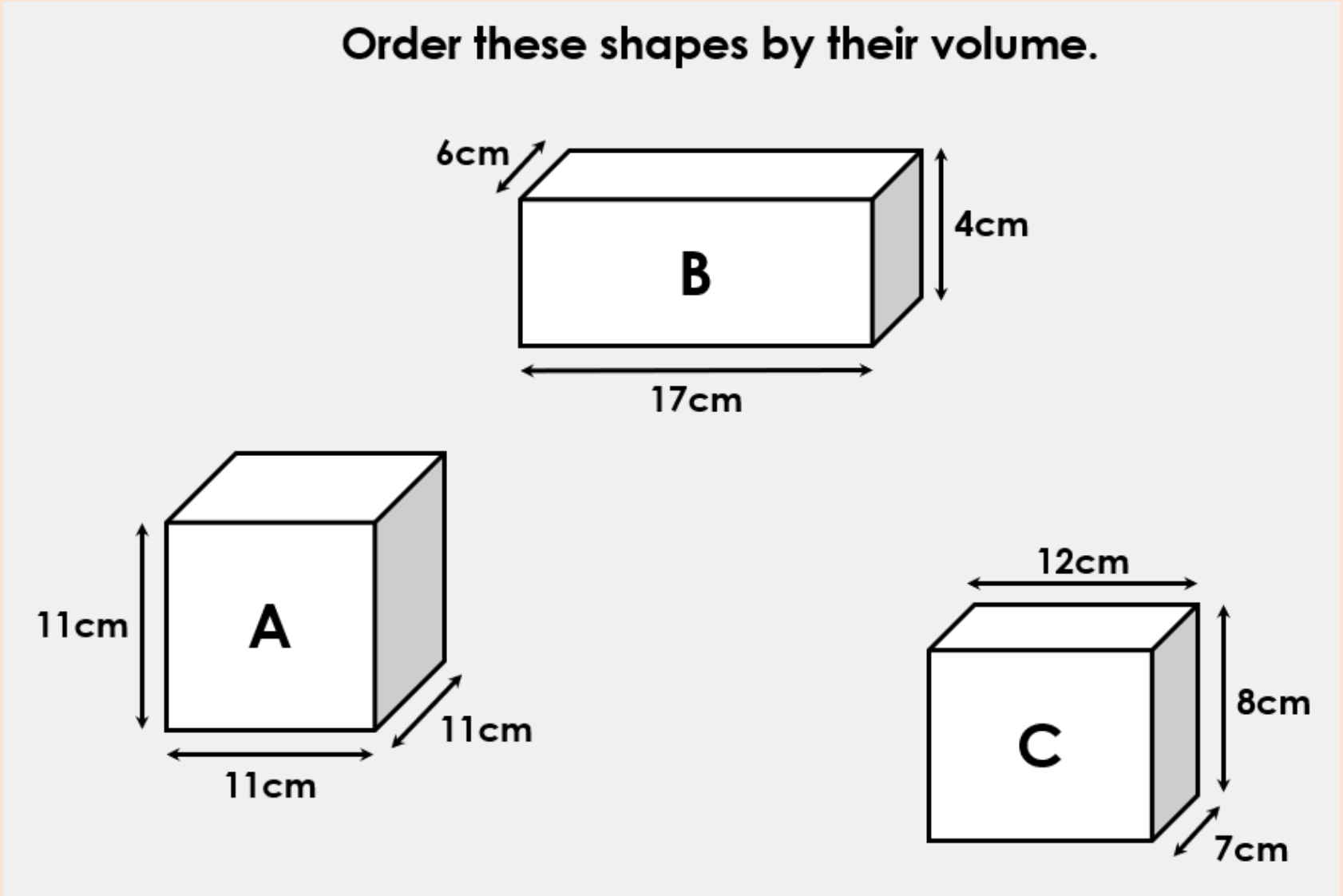


True or false? I can find the volume of this cuboid by calculating $50cm^2$ x 5cm.



12.11.26

TBAT: calculate the volume of shapes.

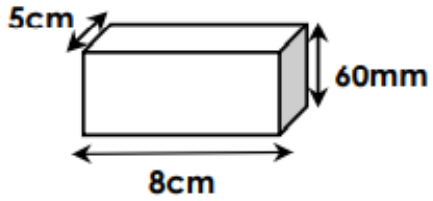


12.11.26

TBAT: calculate the volume of shapes.

	l	*w*	*h*	v
Cuboid 1		7m	11m	231m^3
Cuboid 2	11cm	8cm		88cm^3
Cuboid 3	6mm	8mm	6mm	

True or false? I can find the volume of this cuboid by calculating 30cm^2 x 8cm.

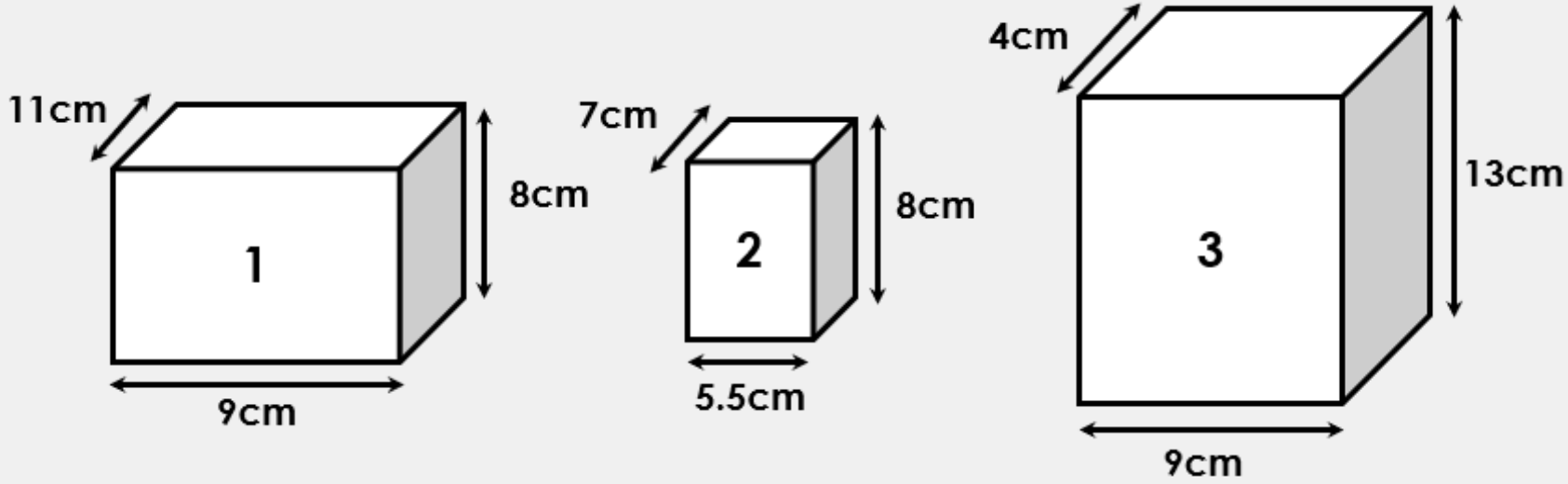


12.11.26

TBAT: calculate the volume of shapes.

Knowledge Check

Using the formula l x w x h, match the cuboids to the correct volume.



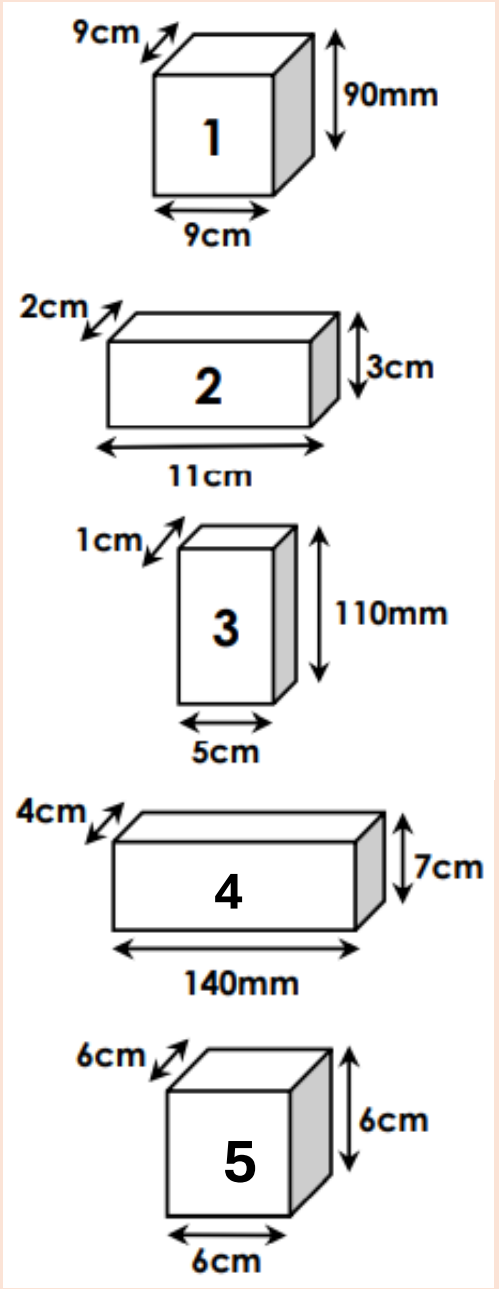
A. 468cm³

B. 308cm³

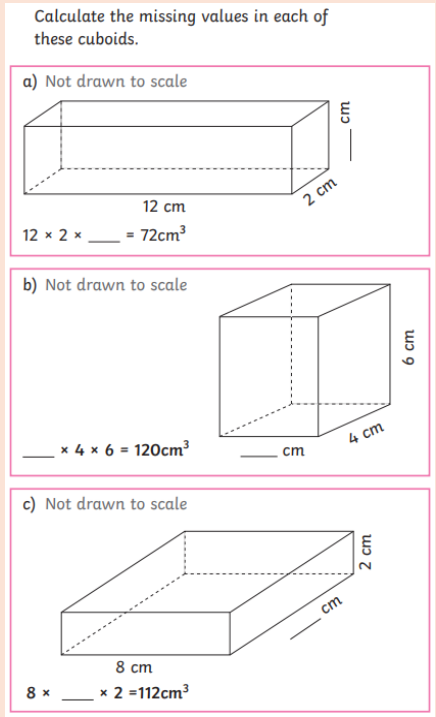
C. 792cm³

12.11.26

TBAT: calculate the volume of shapes.



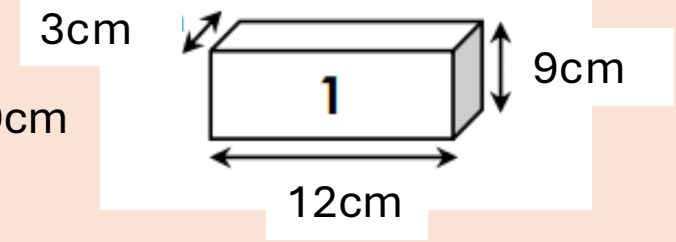
Challenge



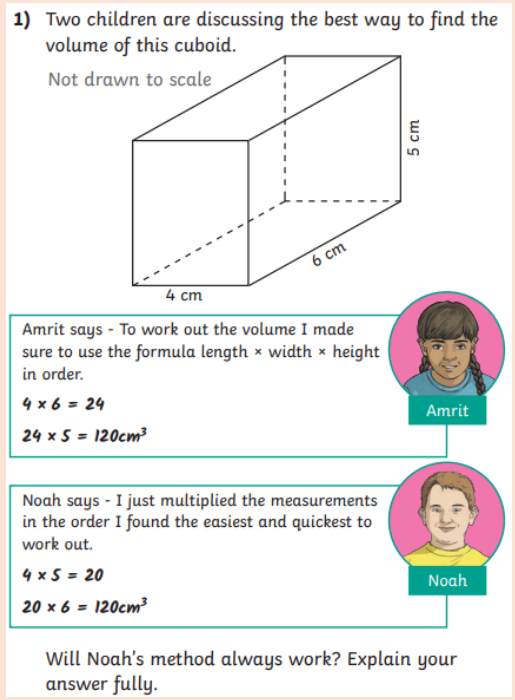
RP – Janet is calculating the volume of this cuboid.

She says, "I know that 3cm x 9cm = 27cm2, so the volume is 27cm2 x 12cm2 = 873cm3."

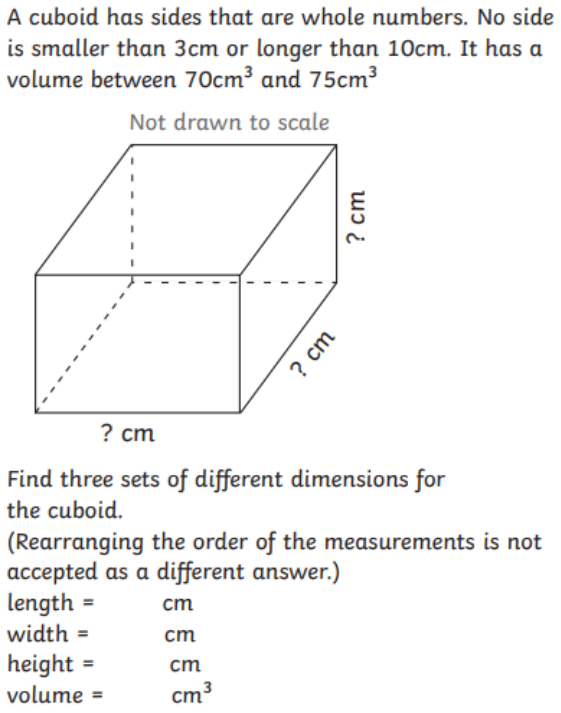
Is Janet correct? Explain why.



Mastery Challenge



Mastery with Greater Depth



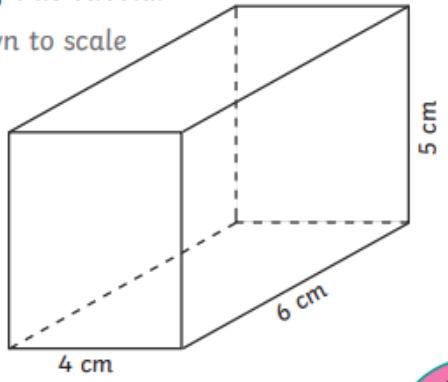
12.11.26

TBAT: calculate the volume of shapes.

Mastery Challenge

Two children are discussing the best way to find the volume of this cuboid.

Not drawn to scale





Amrit

Amrit says - To work out the volume I made sure to use the formula length × width × height in order.

$4 \times 6 = 24$

$24 \times 5 = 120cm^3$



Noah

Noah says - I just multiplied the measurements in the order I found the easiest and quickest to work out.

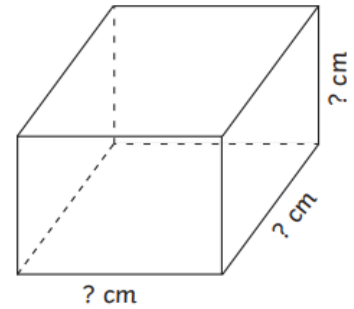
$4 \times 5 = 20$

$20 \times 6 = 120cm^3$

Mastery with Greater Depth

A cuboid has sides that are whole numbers. No side is smaller than 3cm or longer than 10cm. It has a volume between $70cm^3$ and $75cm^3$

Not drawn to scale



Find three sets of different dimensions for the cuboid.

(Rearranging the order of the measurements is not accepted as a different answer.)

length = cm

width = cm

height = cm

volume = cm^3

Thursday 12th November
TBAT: write a persuasive leaflet.

VERBAL

3 in 3

1. Write the correct label in each box.

Noun A	Adjective B	Adverb C	Verb D

Year 5 rushed out to the small playground excitedly.

1 2 3 4

2. Tick **one** box in each row to show whether the underlined word is an **adjective** or an **adverb**.

Sentence	Adverb	Adjective
a) The docile koala ignored the tourists.		
b) Soon, the grey clouds covered the sky.		
c) The chef was talented and effortlessly made a great dessert.		

3. Which **verb form** completes the sentence below?

Whilst she _____ in the woods, she got lost.

Tick **one**

has walked	1
is walking	2
had walked	3
was walking	4

***CHALLENGE:* Write a sentence using *fast* as:**
a) an adjective
b) an adverb.

Thursday 12th November

TBAT: write a persuasive leaflet.

Identify and correct the mistakes.

Located in the middle of an isolated dessert (which was once the sight of the largest lake in Texas Camp green lake boasts a real comunity feel. A stay with us is a opportunitie not to be missed!

Thursday 12th November

TBAT: write a persuasive leaflet.

Identify punctuation to include in your writing.

What Should I Pack?

You don't need to provide anything for the campers; we have it covered!

While staying with us, young people will receive:

- **a regulation orange jumpsuit**, designed for durability and comfort in the Texas heat;
- **a personalised canteen**, essential for hydration during our outdoor activities;
- **their very own sturdy shovel**, used in character-building exercises such as our unique *Digging for Success* programme.

Thursday 12th November
TBAT: write a persuasive leaflet.

What Should I Pack? - Writing Guide

- **Reassure the reader** that they do not need to bring anything. *(Direct address: you)*
- **Introduce the list** using a colon (:). *(Modal verb: will)*
- **Name the item**. *(backpack, torch, water bottle)*
- **Add an expanded noun phrase** to describe it. *(a durable waterproof backpack)*
- **Explain its purpose or benefit** using a comma. *(essential for carrying equipment safely.)*
- **Use ambitious, persuasive vocabulary** throughout. *(essential, sturdy, exciting, unforgettable)*
- **End with the most exciting item** to leave a strong impression on the reader.

Challenge: Explain how each item benefits the camper, not just what it is.

Example

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Thursday 12th November
TBAT: write a persuasive leaflet.

Camp Counsellors

On arrival, your child will receive a warm welcome from our dedicated, highly-trained camp counselors. They are simply the best in the business. Through their guidance, campers learn resilience, teamwork, and problem-solving skills that prepare them for life beyond camp.

Our cutting-edge approach ensures that every young person feels supported and empowered to make positive choices. In fact, **99.9% of our campers leave with renewed confidence and a commitment to success**, whether in education or employment.

Thursday 12th November
TBAT: write a persuasive leaflet.

- **Reassure parents and campers** that they will be welcomed and supported. *(Modal verb: will)*
- **Use an expanded noun phrase** to describe the counsellors. *(our friendly, highly-skilled camp counsellors)*
- **Explain what the counsellors help campers learn**. *(teamwork, resilience, leadership)*
- **Describe the benefits** these skills will have in the future.
- **Use ambitious, persuasive vocabulary** throughout. *(supported, empowered, confident, successful)*
- **Include a fact or statistic** to make the information sound trustworthy.
- **Finish with a positive outcome** for campers.

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Testimonials
As a result of their stay here, young people leave Camp Green Lake ready to face life's challenges head-on. Don't just take our word for it. In the words of Judge Turner, openings at Camp Green Lake, **"Don't last long - secure your spot today!"**

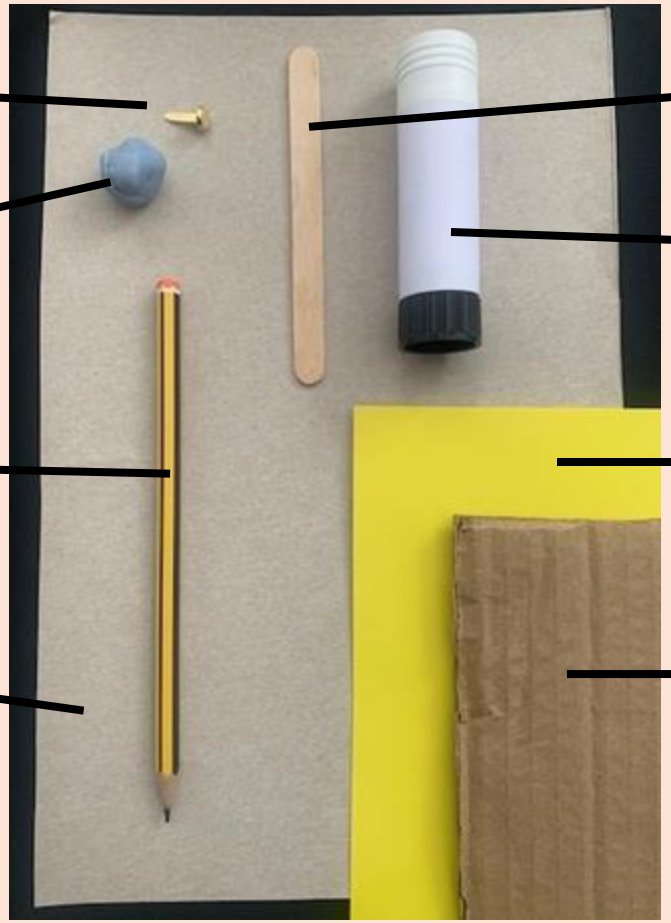
an introduction that hooks the reader and sets out your point of view?	
paragraphs based around one argument or theme with reasons and evidence to support it?	
opinions presented as fact?	
a conclusion that summarises the main argument?	
a final sentence that is impactful and reiterates your opinion?	
short sentences for impact?	
longer sentences to add detail and precision?	
a range of cohesive devices, including adverbials?	
repetition for effect?	
bullet point sentences?	
opinions presented as fact?	

Challenge – Use a colon to introduce a list.

12.11.26

TBAT: explore how cams create movement.

We can make a prototype **cam** using these materials and tools.



split pin

sticky tack

pencil

recycled card (such as a cereal box)

lollipop stick

glue stick

thin card

thick corrugated card

Make a prototype cam

Check

What is a prototype?

a a drawing

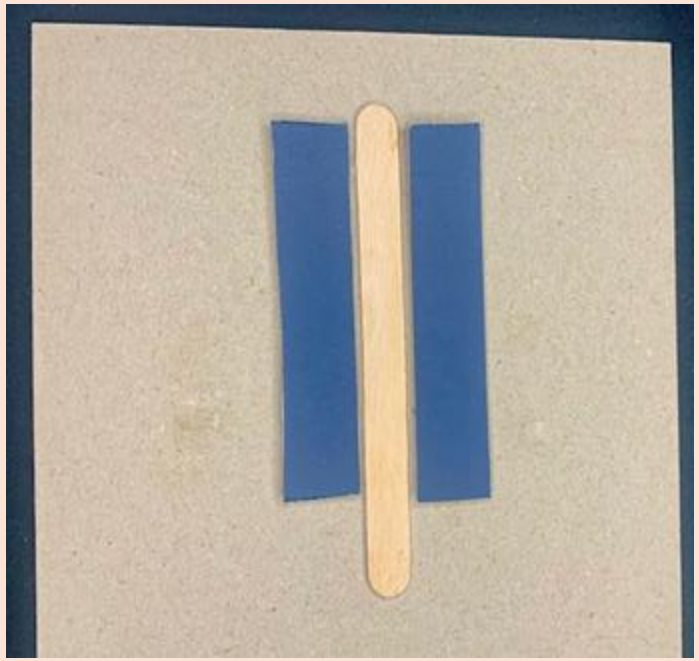
b an idea

c a model or mock-up ✓

d a finished product

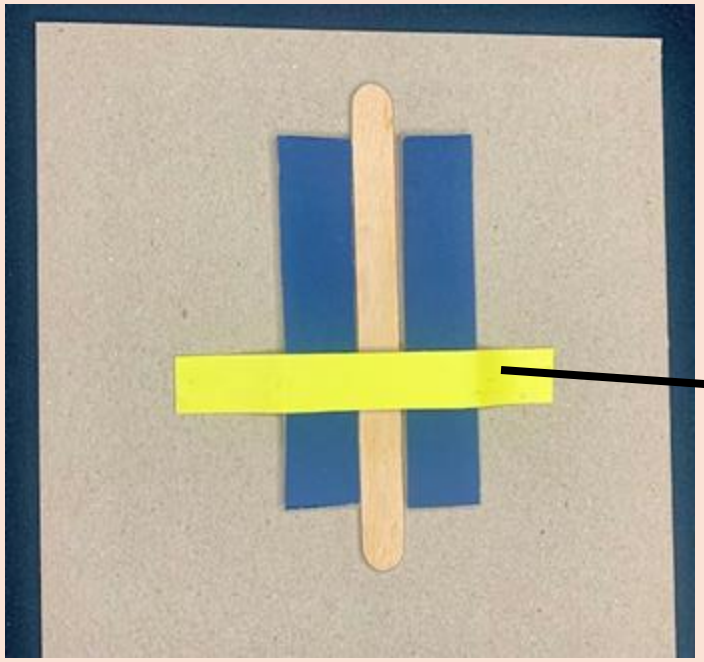
Make a prototype cam

Explanation



Step 1

Place a lollipop stick on a rectangular piece of recycled card. Glue two strips of thick card either side of the lollipop stick.

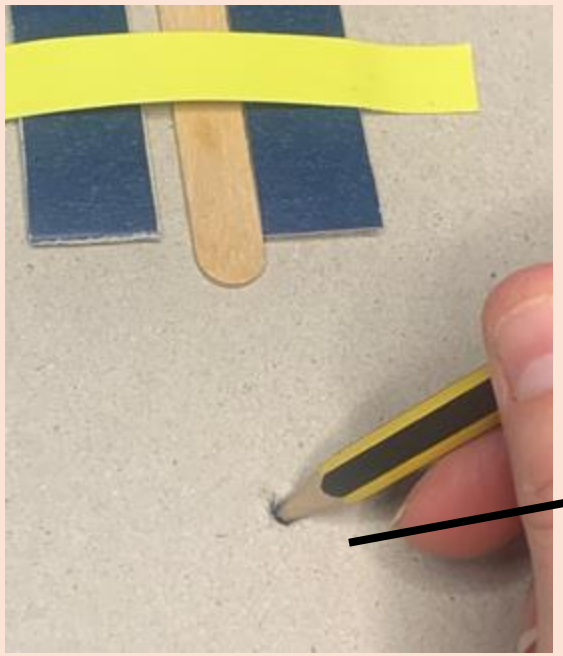


Step 2

Cut a strip of thin card to make a bridge over the lollipop stick. Glue each end to the background.

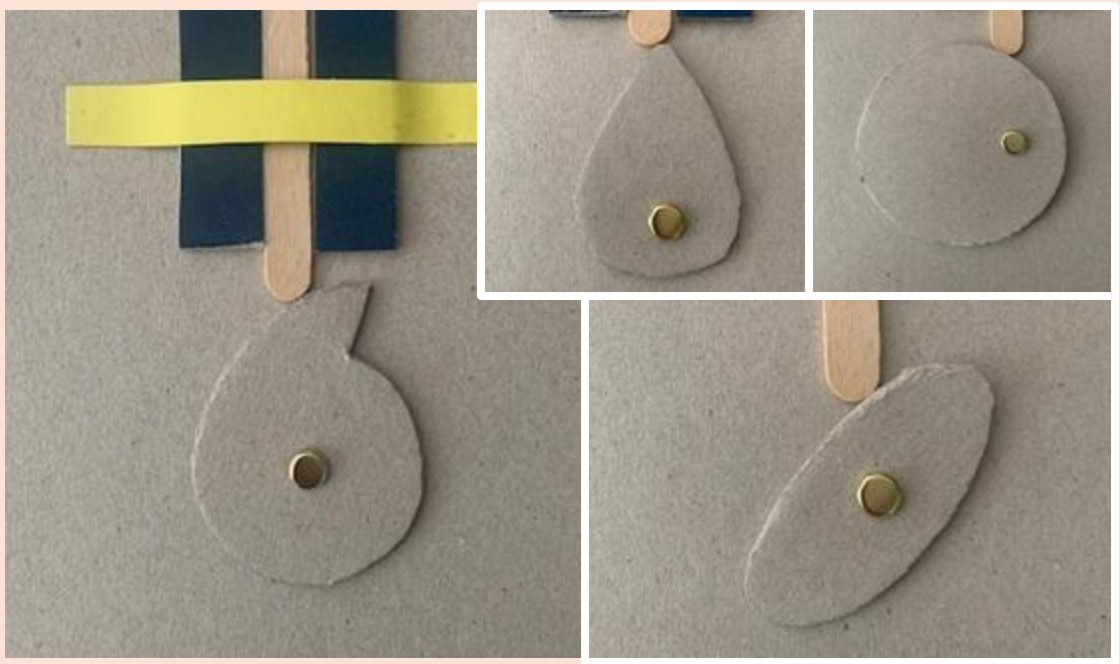
Make a prototype cam

Explanation



Step 3

Safely pierce a hole about 3cm below the thick card, directly underneath the lollipop stick, using the pencil and sticky tack.



Step 4

Experiment by cutting different **cams** out of the thick corrugated card and attaching them using the split pin.

Make a prototype cam

Check

Which part of the **cam** mechanism will the lollipop stick be?

a slide

b follower ✓

c cam

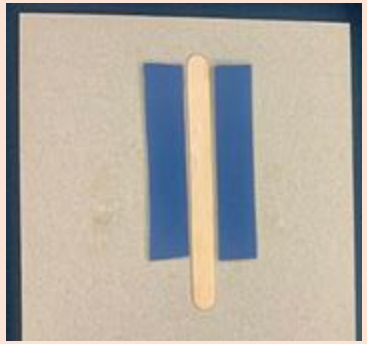
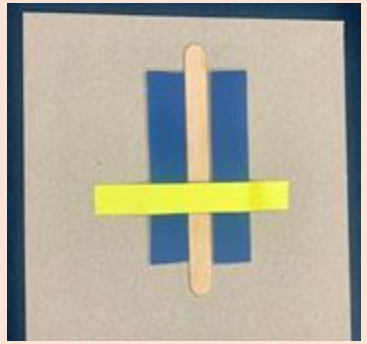
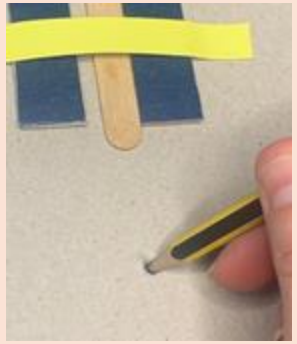
d axle

Task C

Make a prototype cam

Practice

Use the steps to make your own **cam** prototype.


I have:

- [ ] 2 strips of thick card either side of the lollipop stick.
- [ ] 1 strip of thin card across the thick strips and the lollipop stick.
- [ ] A hole about 3cm directly underneath the lollipop stick.
- [ ] A selection of thick card **cams** to test.

Task C

Make a prototype cam

Feedback

You should have:

- [x] 2 strips of thick card either side of the lollipop stick.
- [x] 1 strip of thin card across the thick strips and the lollipop stick.
- [x] A hole about 3cm directly underneath the lollipop stick.
- [x] A selection of thick card **cams** to test.



Top tips!

Hold the card at an angle to allow the lollipop stick to fall in correct place. Move the **cam** slowly.

You may need to adjust your **cam** or hole position.

Cams are mechanisms that usually convert **rotary** motion into **linear** motion.

Rotary motion is movement that goes round in a circle.

Oscillating motion is movement back and forth along a path.

Reciprocating motion is a backwards and forwards movement in a straight line, as in a slider.

Thursday 12th November

Gymnastics

To develop counter balance and counter tension.

Success Criteria

- Move slowly into and out of the balances.
- Use body tension to create clear shapes and stable balances.