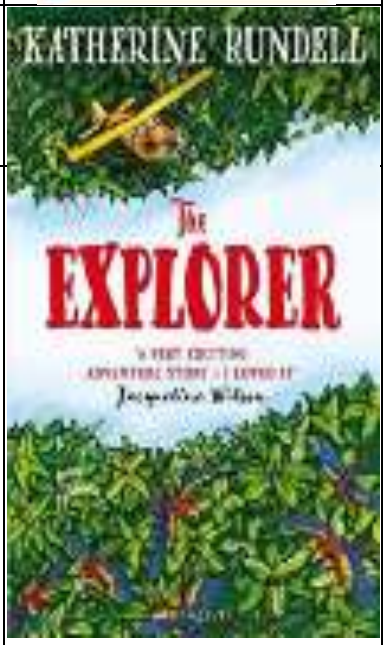
St Margaret's-at-Cliffe CP School

Timetable Class 5

Week 19th July	Monday	Tuesday	Wednesday	Thursday	Friday
	19th July	20th July			
Vocab Ninja	 Ninja Word of the day starting with Shinobi words for year 5 can be found here. You can also play some Vocabulary Ninja Mini Games here: Synonym Stars (vocabularyninja.co.uk)				
	Discuss Hands Face and Space slogan which reminds children of handwashing routine and keeping their distance. We are a class bubble and we will not be mixing with other bubbles. We need to keep each other safe by following the health and safety guidelines in school.				
STORY	# The Explorer ## by Katherine Rundell It has been great reading our class book this term.If you would like to watch the author;Katherine Russell talk about her book then watch here: Katherine Rundell on food from The Explorer (WARNING: she does eat a Tarantula!) - Bing video You can also listen to The Explorer being read here: The Explorer by Katherine Rundell - YouTube You can listen to the author reading the book here: The Explorer by Katherine Rundell - YouTube Here chapter two is being read: The Explorer - Chapter 5 - Food Almost - YouTube And the next chapter here: The Explorer - Chapter 6 - Fire - YouTube				

English	Continue reading or listening to outr class book to discover what eventually happens to the four children. ead Pick your favourite part of the story and draw a picture of the scene.	In Class we will be celebrating the end of our Year 5 and enjoying watching a film that relates the the friendships created in our class book : The Explorer by Katherine The Explorer by Katherine Rundell If you are working from home choose your favourite movie that you enjoy watching the most. Think about the friendships that are between the main characters of the movie.			

Maths	WALT: be able to solve word problems How well do you know your times tables? Plat on TT Rockstars to improve your skills further. You can access the webpage here: Times Tables Rock Stars: Play (ttrockstars.com) Enjoy playing some of these maths games here: Maths Games for Year 5 Kids Online - SplashLearn: Can you solve the Mystery of the Missing Medals? Search below to discover the clues. Use your detective skills to solve the case.	WALT: be able to draw polygons accurately using a ruler to the nearest mm and protracter to the nearest 1° TASK First you need a dice and ruler along with a protractor and pencil. You are going to draw a polygon with 3,4,5 or 6 sides. Once you have drawn the four shapes you are going to measure each side in mm and each angle in degrees. What do you notice about the inside angles of a shape. Can you design a T-shirt that symbolises or reminds you of this year 2021. Look below for the picture of a T-shirt design to help you			

Topic	**Science** WALT: be able to describe the life process of reproduction in some plants. How do plants produce seeds and reproduce? The following video shows how: How plants produce seeds - KS2 Science - BBC Bitesize TASK Investigate different types of plants and their seeds. Now create your own information leaflet to explain the life cycle of a plant Access this lesson using pin code: **GX1948** at Twinkl Go Remember to include diagrams and labels. How does the flower change over time? Watch this clip here: The life cycle of a dandelion - KS2 Science - BBC Bitesize Also here: How does fruit grow? - KS2 Science - BBC Bitesize Record the following: 1. Formation and growth of the flower-bud		.		

	2. The flower opening 3. The flower withering and the petals dropping off 4. As the flower withers, the fruit begins to grow in the middle of it 5. The fruit grows in size and becomes juicy, or dries and splits open, releasing the seeds inside. **In school we will be supporting our year 6 friends as they enjoy celebrating their end of Primary School Assembly**				

Design a Class of 2021 T-Shirt

Can you design your own class of 2021 T-Shirt? You could be inspired by a funny memory from the year, your favourite topic, or maybe just a design you like!

The Mystery of Missing Medals

It is the eve of the HuffandPuffington Primary School Sports Day. The preparations were going well until Mr Bolt found that all the medals had been stolen!

Mr Bolt assumes that they went missing overnight as Mrs Farah said that she definitely put them in the sports hall store the previous afternoon.

CCTV covers parts of the school but not the sports hall store. You are the detective in charge of the case and, with your trusty Scene of Crime Officers (SOCOs), you need to find the perpetrator before the whistle blows to start sports day tomorrow morning!

Solve the clues to eliminate all-but-one of the following suspects based on their gender, the school house colour they are in, their handed-ness, shoe size and their personal best time for the 100m.

Good Luck ... HuffandPuffington Primary School Sports Day is depending on you!

Name	M/F	House Colour	Handed	Shoe Size	100m Sprint PB
Alvin Athlete	M	Red	Left	4	13.56 secs
Ann Aerobic	F	Green	Right	5	15.82 secs
Billy S. Blocks	M	Blue	Right	7	13.99 secs
Bronwyn Baton	F	Yellow	Ambidextrous	3	14.20 secs
Chay Circuit	M	Red	Right	6	17.22 secs
Chen Crowd	F	Green	Right	5	13.67 secs
Dion Discus	M	Yellow	Right	5	14.33 secs
Diana Decathlon	F	Blue	Right	8	15.83 secs
Eddy Eggnspoon	M	Yellow	Right	6	16.21 secs
Edith Exercise	F	Blue	Left	7	14.97 secs
Ffion Firstplace	F	Yellow	Right	5	13.72 secs
Freddie Finisher	M	Green	Ambidextrous	4	17.30 secs
Gareth Gold	M	Red	Right	4	15.66 secs
Georgie Goals	F	Blue	Right	3	14.51 secs
Heidi Highjump	F	Red	Right	7	13.22 secs
Hassan Hurdle	M	Green	Right	6	14.01 secs
Ivan Inspire	M	Blue	Left	5	15.63 secs
Isiobel Infield	F	Red	Right	5	14.49 secs
Jake Javelin	M	Yellow	Ambidextrous	4	14.75 secs
Jay Jump	F	Green	Right	6	16.21 secs
Katie Kickball	F	Red	Left	4	15.03 secs
Kaspar Kitbag	M	Blue	Right	5	13.99 secs
Lena Longjump	F	Yellow	Right	3	14.33 secs
Luther Leg	M	Blue	Right	6	15.12 secs
Mohammed Medal	M	Green	Ambidextrous	5	13.89 secs
Maria Marathon	F	Red	Right	8	17.50 secs
Naimh Net	F	Yellow	Left	5	16.01 secs
Noah Nutrition	M	Green	Left	3	15.88 secs
Orla Overarm	F	Green	Right	7	14.44 secs
Osgur Olympic	M	Blue	Right	6	16.52 secs
Pamela Putt	F	Yellow	Ambidextrous	5	14.91 secs
Pablo Pentathlon	M	Red	Left	4	15.31 secs

Clue 1

The SOCOs have found a snagged piece of t-shirt on the door catch of the store. The culprit seems to have cut themselves at the same time, enabling the SOCOs to analyse the blood sample and find out something key about the criminal.

Work out the answers to each of these questions and the number given will be a letter of the alphabet using

A = 1, B = 2, C= 3 etc.

1. Sides on a triangle × faces on a pentahedron =
2. Vertices on an octahedron =
3. Faces on a cuboid =
4. Sides on a parallelogram + curved surfaces on a sphere =
5. Faces on a hexagonal-based pyramid × flat and curved surfaces on a cone =
6. Vertices on an octagonal prism ÷ right angles in a rectangle =
7. Faces on a triangular prism =
8. Edges on a hexagonal prism =
9. Degrees in a right angle ÷ sides on a decagon =
10. Faces on a icosahedron – edges on a cone =
11. Faces on a hexagonal prism ÷ edges on a square-based pyramid =
12. Vertices on a heptagon + vertices on a sphere =
13. Edges on a triangular prism =
14. Vertices on a triangular prism × faces on a cylinder =
15. Faces on a dodecahedron =

Clue 2

Although the CCTV camera do not cover the sports store, they do cover some areas around the store and the cameras did catch someone around at 1am this morning...

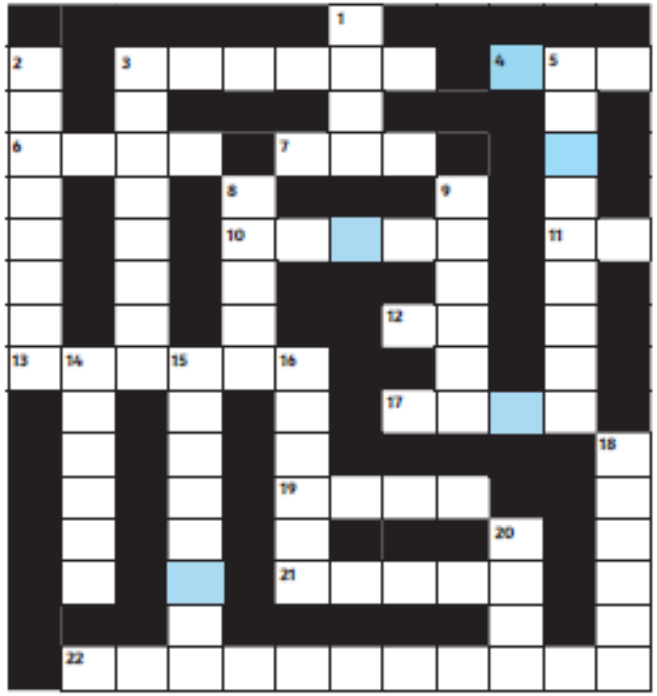
From the CCTV footage, you can see that the culprit moved very quickly from one CCTV area to another. That has helped you deduce that they must be able to run quite fast.

Solve the calculations below and the most popular answer will give you the slowest time that the culprit must be able to run 100m.

1.	M	C	D	X	X	V	I	I	I	÷	C	I	I
2.	D	C	C	C	X	I	I	÷	L	V	I		
3.	M	X	X	V	I	÷	L	X	X	V	I		
4.	M	C	D	X	X	I	÷	X	C	V	I	I	I

Clue 3

The SOCOs have found one medal dropped by the culprit. The fingerprints on it match fingers prints on the store cupboard of a certain house. Solve the crossword below to reveal the answer.



Across	Down
3. The proper name for a corner. 4. The square root of 36. 6. This sign > means ____ than. 7. The first integer which is not a prime number. 10. An angle less than 90°. 11. The unit symbol for centimetres. 12. The unit symbol for millilitres. 13. Part one of the answer to the clue. Part two is an anagram of the letters in the blue squares. 17. The x and y ____ form the basis of a graph. 19. A small metric measure of 16 down. 21. The sum of everything. 22. The bottom number of a fraction.	1. A type of diagram using circles and sets. 2. What you do to a fraction to make the bottom number as low as possible. 3. A line that runs from top to bottom rather than horizontal. 5. A triangle with two sides the same length. 8. Comparing two or more things using this sign: 9. An angle greater than 180°. 14. Half of a quarter. 15. The meaning of this sign <. 16. What is measured in kg or ounces? 18. A number that can be multiplied with another to make a larger number. 20. When you put a point on a graph.

Clue 4

The SOCOs have found that when the perpetrator ran away with the medals, they ran through the newly raked long jump sand pit and left a clear footprint.

The SOCOs were able to ascertain the size of the culprit's shoe which will be revealed on solving the following percentage questions and then finding the mode of the answers.

a) 1% of 600	b) 200% of 4
c) 20% of 25	d) 30% of 20
e) 25% of 20	f) 10% of 50
g) 40% of 10	h) 32% of 25

Clue 5

While you were looking at the shadowy figure on the CCTV, it was impossible to see any clear features of the person, but they did overarm throw the two boxes that the medals were in.

Multiply these decimals to find a message using the code A=1, B=2, C=3 (and so on) to see what you have found out about the culprit.

Remember when working with decimals, it's useful to imagine money.

Decimal Calculations	Answer	Letter
0.2 × 100		
0.2 × 40		
0.9 × 20		
0.25 × 20		
5.75 × 4		
1.15 × 20		
2.25 × 4		
0.8 × 25		
0.5 × 16		
0.25 × 8		
0.75 × 20		
2.5 × 8		
0.25 × 32		
0.08 × 100		
0.04 × 25		
0.5 × 28		
0.02 × 200		
0.95 × 20		

The Confession

When the culprit was finally caught, they had this to say...

x	2	5	7	3	10	8	6	4	1	9
6	I	A	L	V	B	K	D	C	J	'
9	V	M	!	T	$	Y	"	D	H	B
3	J	S	U	H	A	C	V	I	:	T
1	Q	&	.	:	P	W	J	X	Z	H
7	F	G	@	U	/	O	L	)	.	!
2	X	P	F	J	R	N	I	W	Q	V
8	N	?	O	C	#	E	K	£	W	Y
5	P	(	G	S	*	?	A	R	&	M
10	R	*	/	A	%	#	B	?	P	$
4	W	R	)	I	?	£	C	N	X	D

12	8	30	15	6	21	15	27

54	45	64	36	30	42	42	12	16	35	54

8	9	64	20	64	12	15	9	56	21	42	36

16	56	27	9	30	18	64	60	64	64	16	63

The Mystery of Missing Medals - Answ

Clue 1

Offender is a girl.

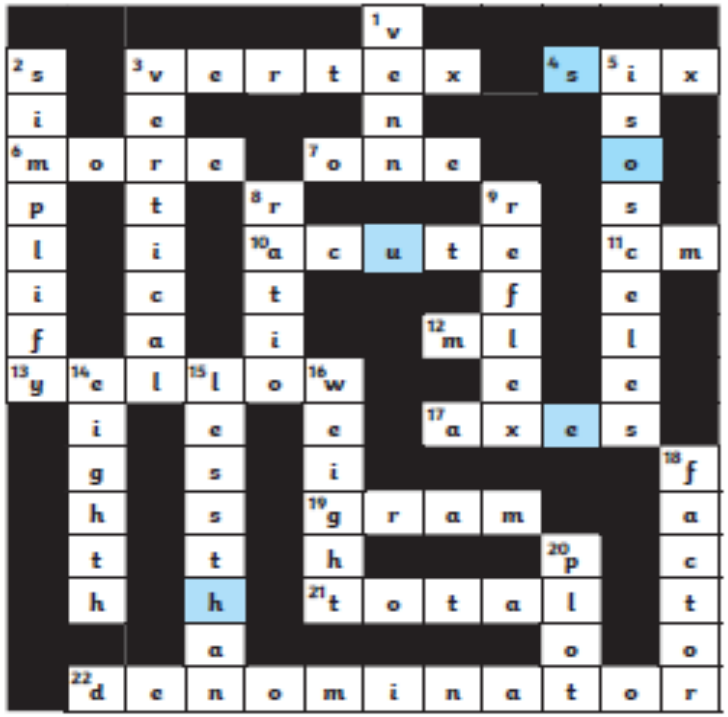
(15,6,6,5,14,4,5,18,9,19,1,7,9,18,12)

Clue 2

1. 14
2. 14.5
3. 13.5
4. 14.5

Clue 3

Reveals yellow house



Clue 4

The mode answer is 5.

a) 6 b) 8 c) 5 d) 6 e) 5 f) 5 g) 4 h) 8

Clue 5

Throw with both hands

(20,8,18,5,23,23,9,20,8,2,15,20,8,8,1,14,4,19)

The Culprit:

Pamela Putt

The Confession:

I was just 'medalling' where I should not have been!

Maths Mastery

Multiply and Divide by 10, 100 and 1000

Challenge Cards

Multiply by 10

1. Correct the calculations that are incorrect:

34 × 10 = 340

0.6 × 10 = 60

5.7 × 10 = 57

0.003 x × 10 = 0.3

8900 × 10 = 890

902 × 10 = 9200

8.03 × 10 = 80.3

Multiply by 10

2. Correct the calculations that are incorrect:

212 × 10 = 2120

0.05 × 10 = 5

34.91 × 10 = 349.1

50.3 × 10 = 503

0.52 × 10 = 52

9.09 × 10 = 99

71 000 × 10 = 710 000

Divide by 10

3. Here is a calculation:

0.3 ÷ 10 =

Calculate the answer.

Give two different real life examples where this calculation would be used to give the answer.

Explain how to calculate the answer.

Maths Mastery Challenge Cards

Multiply by 100

4. In which of these problems will the answer be found by multiplying by 100. Calculate the answers.

a. 100 children are each given £1.20. How much money is given out altogether?

b. At a school disco, there are 34 litres of lemonade. The 100 children at the disco are each given an equal share. How much lemonade does each child receive?

c. Some children lay 100 pencils in a long line. Each pencil is 0.14m long. What is the length of the line of pencils?

Maths Mastery Challenge Cards

Divide by 100

5. Correct the calculations that are incorrect:

6 ÷ 100 = 0.06

34 ÷ 100 = 0.034

5.7 ÷ 100 = 0.057

0.3 ÷ 100 = 0.03

8900 ÷ 100 = 89

902 ÷ 100 = 0.92

8.03 ÷ 100 = 0.083

Maths Mastery Challenge Cards

Divide by 100

6. Correct the calculations that are incorrect:

212 ÷ 100 = 2.12

500 ÷ 100 = 5

34.91 ÷ 100 = 0.349

50.3 ÷ 100 = 0.5003

520 ÷ 100 = 5.2

9.09 ÷ 100 = 0.099

71 000 ÷ 100 = 71

Maths Mastery Challenge Cards

Multiply by 1000

7. Here is a calculation:

0.04 × 1000 =

Calculate the answer.

Give two different real life examples where this calculation would be used to give the answer.

Explain how to calculate the answer.

Maths Mastery Challenge Cards

Divide by 1000

8. In which of these problems will the answer be found by dividing by 1000. Calculate the answers.

a. 1000 people attend a football match. All tickets are the same price. The total received is £12 500. How much is each ticket?

b. A swimming pool attendant fills a swimming pool with 1000 equal buckets of water. There is 4520 litres in the pool. How much water is in each bucket?

c. A baker makes 1000 pies in a week. Each pie is sold for £1.45. All the pies are sold. How much does the baker take for all the pies?

Maths Mastery Challenge Cards **Answers**

1. Correct the calculations that are incorrect:

34 × 10 = 340 **correct**

0.6 × 10 = 60 **incorrect = 6**

5.7 × 10 = 57 **correct**

0.003 x × 10 = 0.3 **incorrect = 0.03**

8900 × 10 = 890 **incorrect = 89 000**

902 × 10 = 9200 **incorrect = 9020**

8.03 × 10 = 80.3 **correct**

Maths Mastery Challenge Cards **Answers**

2. Correct the calculations that are incorrect:

212 × 10 = 2120 **correct**

0.05 × 10 = 5 **incorrect = 0.5**

34.91 × 10 = 349.1 **correct**

50.3 × 10 = 503 **correct**

0.52 × 10 = 52 **incorrect = 5.2**

9.09 × 10 = 99 **incorrect = 90.9**

71 000 × 10 = 710 000 **correct**

Maths Mastery Challenge Cards **Answers**

3. Here is a calculation: **0.3 ÷ 10 = 0.03**

Suggested Answers.

Example 1: Jez has 0.3 litres of milk. He shares the milk equally into 10 cups. How much milk is in each cup?

Example 2: Jez has £0.30. He divides the money into 10 equal amounts. How much is each amount?

Dividing by 10 will make a number smaller. Practically this means moving the digits one place value to the right. In this case 0.3 becomes .03, and by convention, we write a 0 in front of the decimal place to become 0.03.

Maths Mastery Challenge Cards **Answers**

4. In which of these problems will the answer be found by multiplying by 100. Calculate the answers.

a. **Yes, £120**

b. **No, 34 ÷ 100 = 0.34l**

c. **Yes, 14m**

Maths Mastery Challenge Cards **Answers**

5. Correct the calculations that are incorrect:

6 ÷ 100 = 0.06 **correct**

34 ÷ 100 = 0.034 **incorrect = 0.34**

5.7 ÷ 100 = 0.057 **correct**

0.3 ÷ 100 = 0.03 **incorrect = 0.003**

8900 ÷ 100 = 89 **correct**

902 ÷ 100 = 0.92 **incorrect = 9.02**

8.03 ÷ 100 = 0.083 **incorrect = 0.0803**

Maths Mastery Challenge Cards **Answers**

6. Correct the calculations that are incorrect:

212 ÷ 100 = 2.12 **correct**

500 ÷ 100 = 5 **correct**

34.91 ÷ 100 = 0.349 **incorrect = 0.3491**

50.3 ÷ 100 = 0.5003 **incorrect = 0.503**

520 ÷ 100 = 5.2 **correct**

9.09 ÷ 100 = 0.099 **incorrect = 0.0909**

71 000 ÷ 100 = 71 **incorrect = 710**

Maths Mastery Challenge Cards **Answers**

7. Here is a calculation: **0.04 × 1000 = 40**

Suggested Answers.

Ella saves the £0.04 change she gets from her bus fair each day. How much will she have saved after 1000 days?

A packet of nuts weights 0.04 kg. How much will 1000 packets weigh?

Multiplying by 1000 will make a number larger. Practically this means moving the digits three place values to the left. In this case 0.04 becomes 40. The three steps are 0.4, 4, 40.

Odd one out

Which of the images below is the odd one out?

A

B

C

D

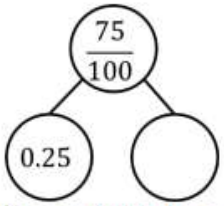
Explain why.

Possible answer:

B is the odd one out because it shows $\frac{2}{5}$, which is $\frac{4}{10}$ or 0.4

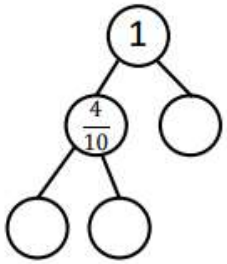
The other images show $\frac{2}{10}$ or 0.2

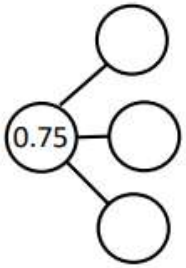
How many different ways can you complete the part-whole model using fractions and decimals?



Create another part-whole model like the one above for your partner to complete.

Now complete the following part-whole models using fractions and decimals.





Possible answers:

$\frac{50}{100}$

$\frac{1}{2}$

0.5

There are various possible answers when completing the part-whole models. Ensure both fractions and decimals are represented.

A number between 11 and 20 with 2 decimal places rounds to the same number when rounded to one decimal place and when rounded to the nearest whole number?

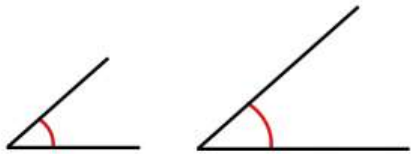
What could this be?
Is there more than one option?
Explain why.

The whole number can range from 11 to 19 and the decimal places can range from ___.95 to ___.99

Can children explain why this works?

Reasoning and Problem Solving

R



Angle A Angle B

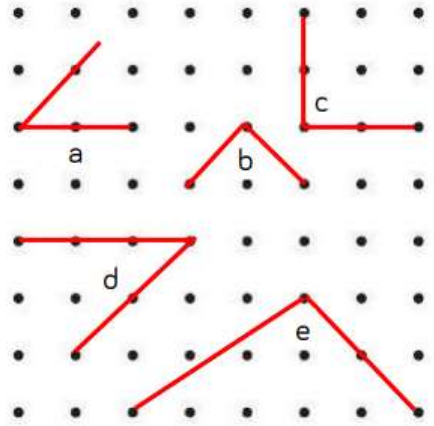
Ron

Angle B is bigger than Angle A because it has longer sides.

Do you agree with Ron? Explain your thinking.

Angle A and Angle B are the same size. Ron has mixed up the lengths of the lines with the size of the angles.

Here are five angles.
There are two pairs of identically sized angles and one odd one out.
Which angle is the odd one out?
Explain your reason.



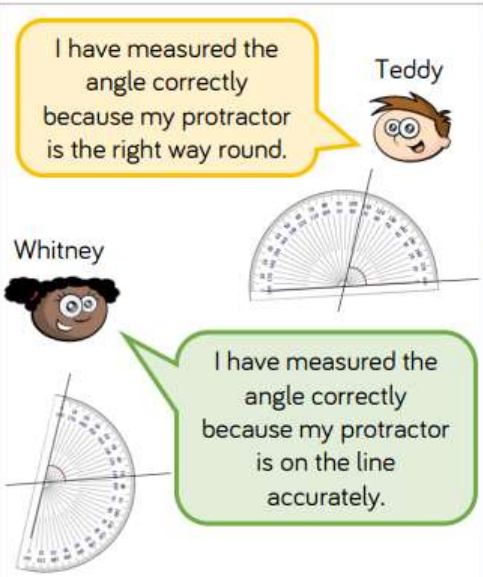
Angle e is the odd one out.

Angle b and c are both right angles.

Angle a and d are both half of a right angle or 45 degrees.

Angle e is an obtuse angle.

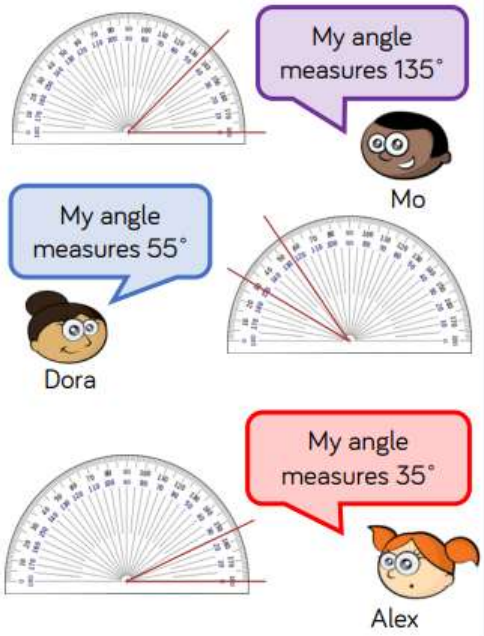
Reasoning and Problem Solving



Who do you agree with?
Explain why.

They are both correct. It doesn't matter which way the protractor is as long as it is placed on the angle correctly.

Three children are measuring angles. Can you spot and explain their mistake?



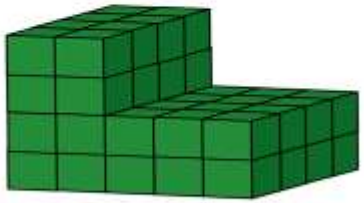
Mo hasn't recognised his angle is acute so his measurement is wrong.

Alex has not placed one of her lines on 0. Her angle measures 25°.

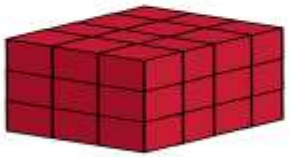
Dora has misread the scale. Her angle measures 25°.

Amir, Whitney and Mo all build a shape using cubes.
Mo has lost his shape, but knows that it's volume was greater than Whitney's, but less than Amir's.

Amir's

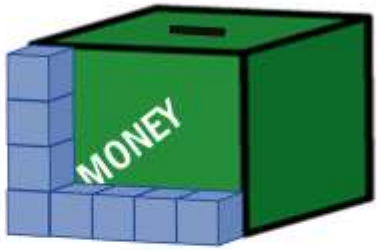


Whitney's



What could the volume of Mo's shape be?

Jack is using cubes to estimate the volume of his money box.



He says the volume will be 20 cm^3

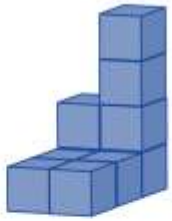
Do you agree with Jack?
Explain your answer.

What would the approximate volume of the money box be?

Shape A has a height of 12 cm. Shape B has a height of 4 cm.
Dora says Shape A must have a greater volume.

Is she correct? Explain your answer.

Eva has built this solid:



Tommy has built this solid:

Eva thinks that her shape must have the greatest volume because it is taller.
Do you agree?
Explain your answer.

How old is Hector?

Using this list of facts, work out how old Hector is.

- Lottie was four when Hector was born.
- Archie was six when Hector was born.
- Henry was ten when Hector was born.
- Last year Archie was $\frac{4}{5}$ the age of Henry.
- Next year Hector will be $\frac{1}{4}$ the age of Mum.
- Mum is above the age of 38 and below the age of 60.
- Last year Hector was $\frac{1}{2}$ the age of Henry.

How old is Hector?

Puzzle Pointer

Always look for the relevant information. The ages of Lottie and Archie are not going to help but the ages of Mum and Henry are critical. Begin by writing down the ages that are possible then cross out the ages that do not fit with the rest of the information provided.

Answer

Hector is 11 years old.

To solve this you can start with Hector being $\frac{1}{4}$ the age of Mum **next** year. We know that next year Mum must be an age divisible by 4. Her possible age **next** year is (40, 44, 48, 52, 56) so this year Mum must be 39, 43, 47, 51, 55 and Hector must be 9, 10, 11, 12, 13.

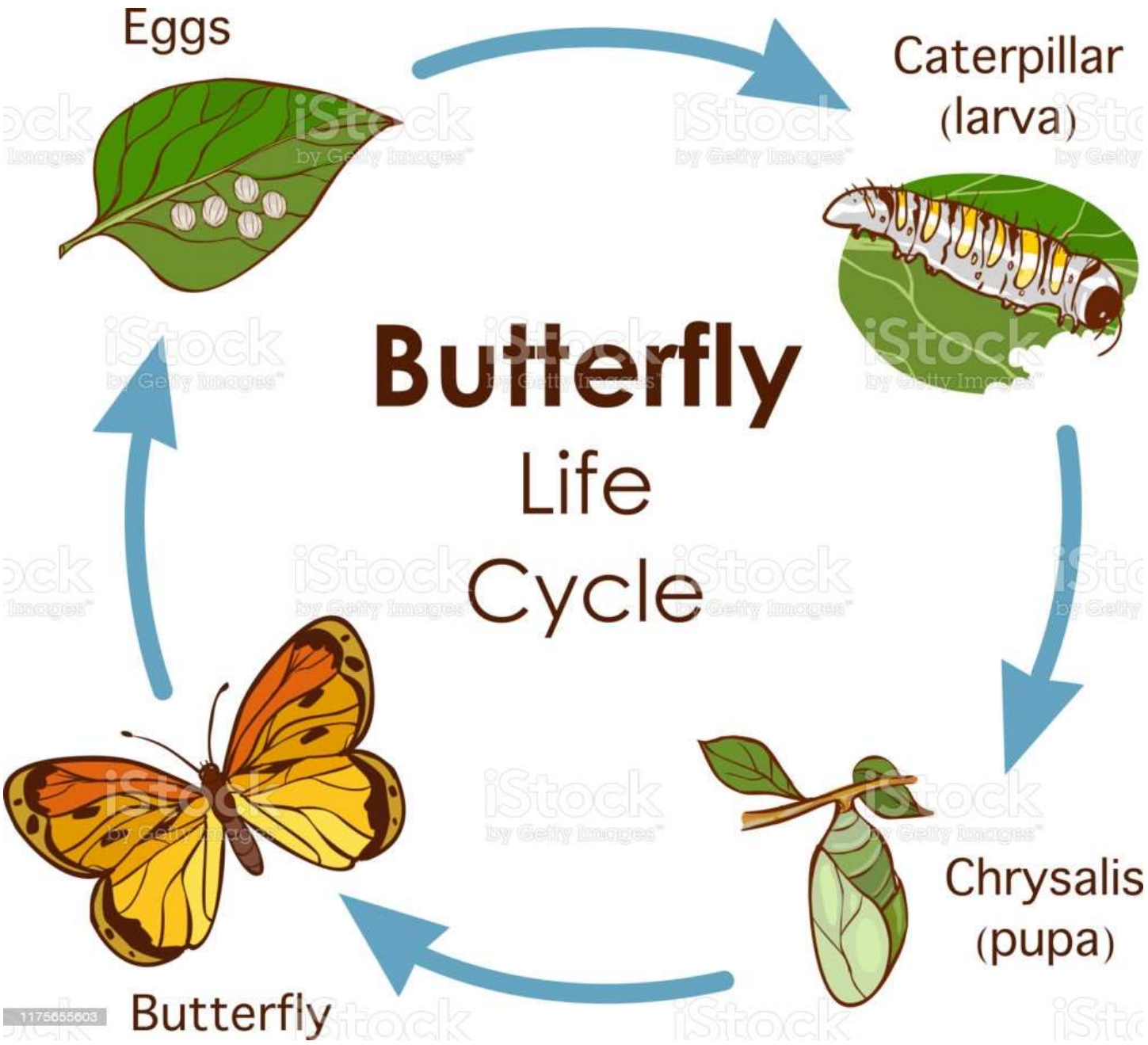
Last year Hector was $\frac{1}{2}$ the age of Henry so Henry must be (16, 18, 20, 22, 24) **last** year so this year Henry must be (17, 19, 21, 23, 25). You know that Henry was 10 when Hector was born so there must be a difference of 10 years.

HECTOR	9	10	**11**	12	13
HENRY	17	19	**21**	23	25
Age difference	8 years	9 years	**10 years**	11 years	12 years

Reading Activities

Choose one of these activities to go alongside your reading book each day!

In a nutshell... Write a ten-word summary of the pages (or book!) you have just read. 	**Dear diary...** In first person as the main character, write a diary entry about the main event. 	**Sam-I-Am...** How are you similar to the character in the book? How are you different? Create a table. 	**Word Detective...** Find 10 words that you are unsure of the meaning and, using the sentence, find the definition. 
Incredible Illustration... Choose the favourite page you've read today and create an illustration for it. 	**Perfect Prediction...** If you're starting a new book, before you begin write **three** predictions you can make from the front cover! 	**Front Cover** When you finish the book can you create a front cover? Remember - don't give the story away! 	**Act it out...** Act out a scene from the book - can someone guess what's happening? 
I say... Draw a speech bubble - what was a character thinking during the events of the page? 	**Vocabulary Ninja...** Find 5 words which add atmosphere to the book. Use them in your own sentence. 	**20 Questions...** Write down 10 questions you'd want to ask the characters from the book. 	**Decisions, decisions...** Choose a decision the character has made and write reasons 'for' and 'against'. 
Hear Hear... Tell someone the favourite part of your book and why. 	**Time to...** Create a timeline for your book with 5 main events on. 	**In the news...** Write a newspaper report of an event from your book. 	**Valiant values...** How did a character show our school values? 


Eggs
Caterpillar
(larva)
Butterfly
Life
Cycle
Chrysalis
(pupa)
Butterfly

Lifecycle of mammals

Pregnant female pig

Gives birth to piglets

Grows into an adult pig

Most mammals give birth to live young babies. They look very similar to their parents.

Female mammals feed their babies milk from their body, from mammary glands.

HOW WELL DO YOU KNOW YOUR SPELLING?

Statutory Spelling List for children of Year 5 and Year 6

accommodate	conscience	explanation	neighbour	shoulder
accompany	conscious	familiar	nuisance	signature
according	controversy	foreign	occupy	sincere
achieve	convenience	forty	occur	sincerely
aggressive	correspond	frequently	opportunity	soldier
amateur	criticise	government	parliament	stomach
ancient	curiosity	guarantee	persuade	sufficient
apparent	definite	harass	physical	suggest
appreciate	desperate	hindrance	prejudice	symbol
attached	determined	identity	privilege	system
available	develop	immediately	profession	temperature
average	dictionary	interfere	programme	thorough
awkward	disastrous	interrupt	pronunciation	twelfth
bargain	embarrass	language	queue	variety
bruise	environment	leisure	recognise	vegetable
category	equipped	lightning	recommend	vehicle
cemetery	equipment	marvellous	restaurant	yacht
committee	especially	mischievous	rhyme	
communicate	exaggerate	muscle	rhythm	
community	excellent	necessary	sacrifice	
competition	existence		secretary	