

W.C. 20th April

<https://www.bbc.co.uk/bitesize/tags/zhgppg8/year-5-lessons/1>

Maths

After watching the videos and having a go at the practise activities have a go at these activities. Depending on your confidence choose Mild, Medium or Spicy.

Extensions – You may wish to deepen your learning by looking at the Collins Worksheets provided by the BBC too.



Monday

Negative numbers on a number line

Numbers don't just stop at zero. When you count **backwards** from zero, you go into **negative numbers**.

Positive numbers are more than zero: 1, 2, 3, 4, 5, etc.

Negative numbers are less than zero: -1, -2, -3, -4, -5, etc.

A number line can be used to order negative and positive numbers.

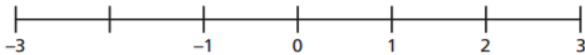
Zero, 0, is neither positive nor negative.



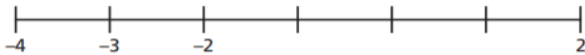
Mild

1 Complete the number lines.

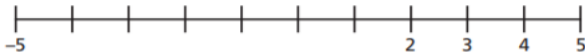
a)



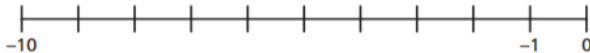
b)



c)



d)



2 Complete the temperature labels on the thermometer.

Circle the warmest temperature in each pair.

a) 2°C 4°C

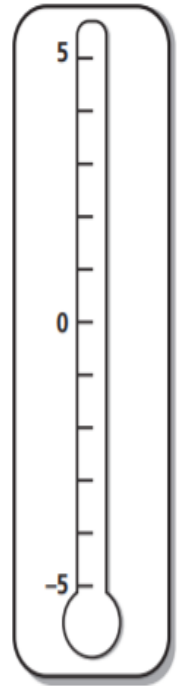
b) 5°C 0°C

c) -1°C 1°C

d) -3°C 0°C

e) 4°C -1°C

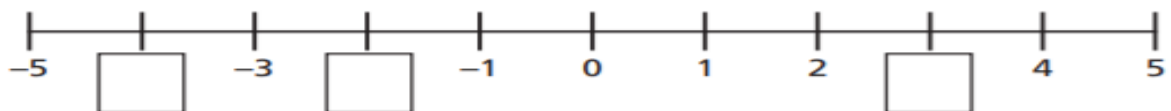
f) -4°C 1°C



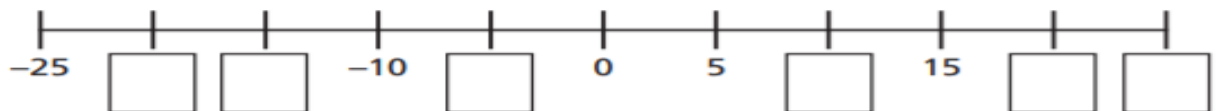
Medium

1 Complete the number lines.

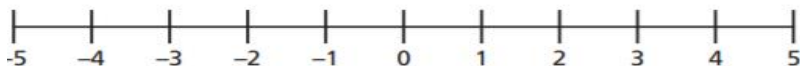
a)



b)



Use the number line to find the difference between the numbers.
Complete the sentences.



a) The difference between 3 and 5 is

b) The difference between -3 and 5 is

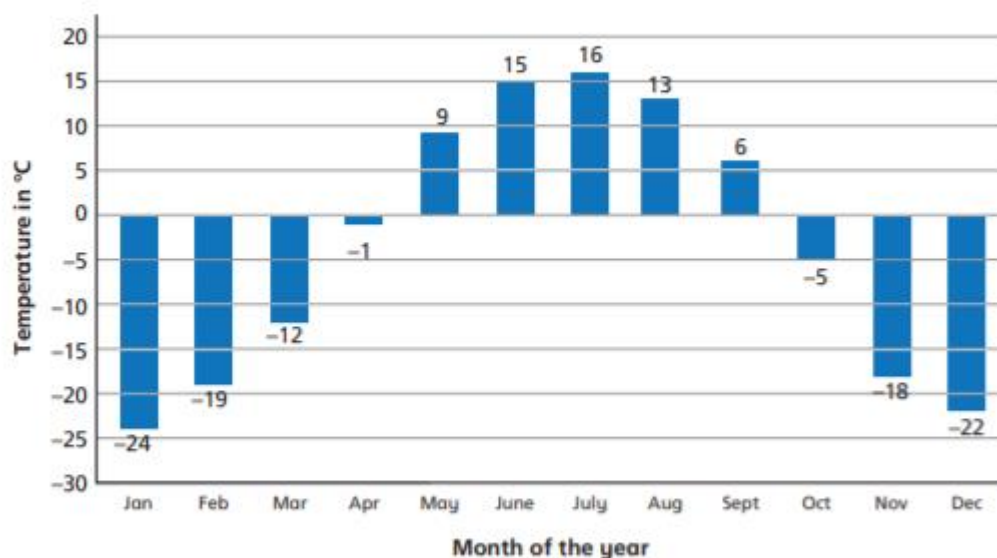
c) The difference between -1 and 1 is

d) The difference between -5 and 5 is

Spicy

5

This bar chart shows average temperatures for each month at the North Pole.



- a) On average, which month is the hottest? _____
- b) On average, which month is the coldest? _____
- c) What is the difference in temperature between the hottest and coldest months?
- d) By how many degrees does the temperature rise between March and August?
- e) By how many degrees does the temperature fall between June and November?
- f) How many months of the year is the temperature below freezing?
- g) In which months does the average temperature drop below freezing? _____

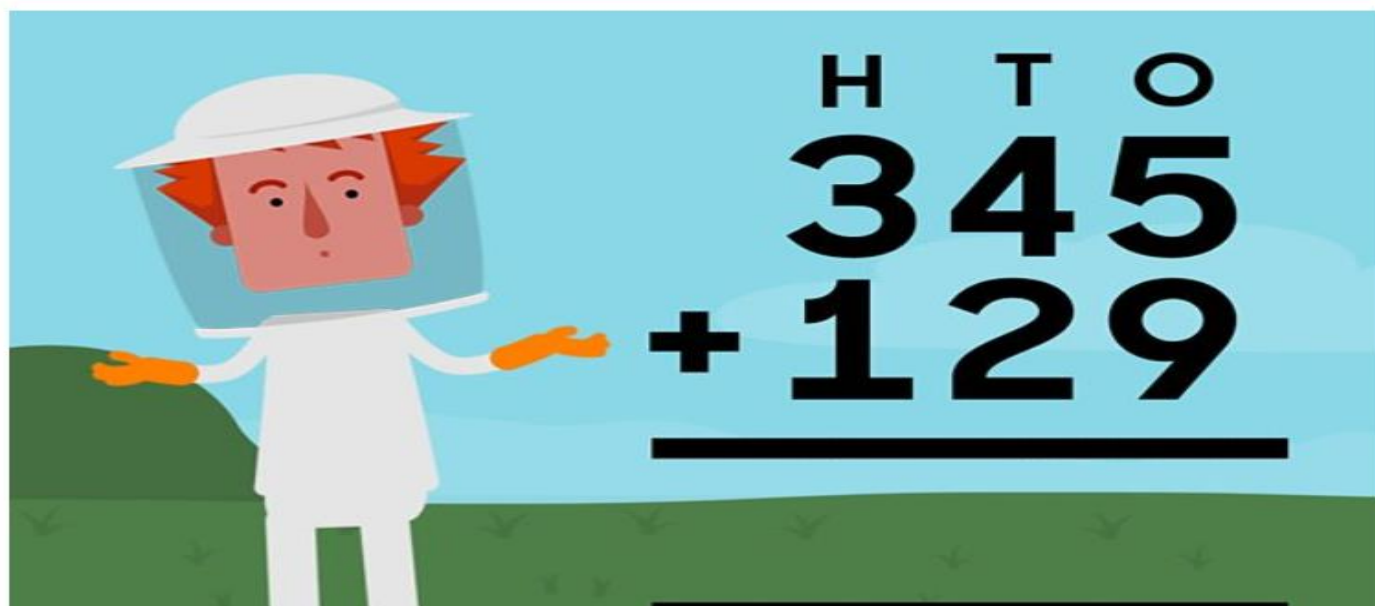
Tuesday

Methods of Addition and Subtraction

Addition

When writing down calculations, separate the numbers into ones, tens, hundreds and thousands. List the numbers in a column and always start adding with the ones first.

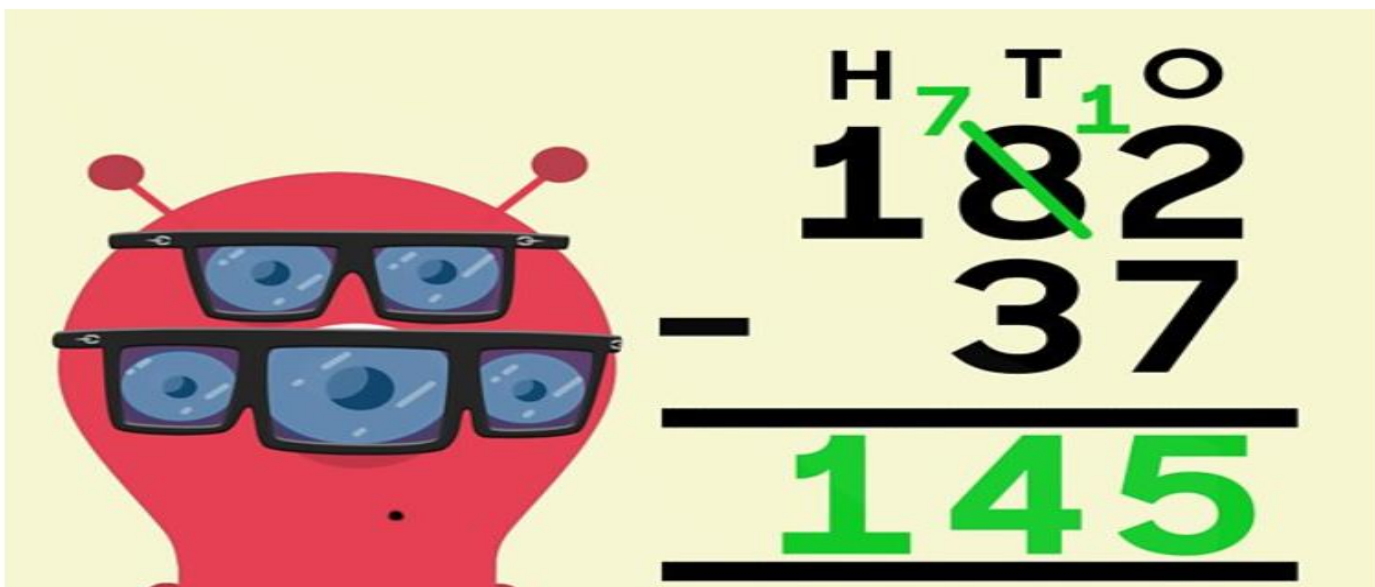
- Estimate first and check afterwards - it's a good idea to estimate a rough answer first and then check your actual answer.
- Order doesn't matter - remember that $345 + 129$ is the same as $129 + 345$.
- Key words - look out for these words in problems: **total**, **sum**, **altogether**, **more**. They all indicate an addition calculation.



Subtraction

If the numbers are too high or too difficult to subtract in your head, write them down in columns. Separate the numbers into ones, tens, hundreds and thousands. List the numbers in a column and always start with the ones first.

- Estimate first and check afterwards - it's a good idea to estimate a rough answer first. And always check your actual answer.
- Subtraction is the *opposite* to addition. So subtraction can always be checked by adding. Check that $182 - 37 = 145$ by doing the sum: $145 + 37 = 182$
- Look out for these words in problems: **take away**, **difference**, **less than**, **minus**, **decrease**, **fewer than**, **reduce**. They all indicate subtraction.



Mild

1 Complete the calculation.

Th	H	T	O
1,000 1,000	100	10 10 10 10 10 10 10	1 1 1 1 1 1
1,000 1,000 1,000	100 100 100 100	10 10 10 10 10	1 1 1 1 1 1 1 1

+

Th	H	T	O
2	1	7	6
+	3	4	5

Complete the additions.

a)

Th	H	T	O
4	7	1	2
+	3	4	9

c) $3,784 + 2,526$

Th	H	T	O

b)

Th	H	T	O
6	0	7	5
+	9	4	8

d) $79 + 654 + 1,312$

Th	H	T	O

Medium

1 Complete the calculations.

a)

Th	H	T	O
1,000 1,000	100	10 10 10 10 10 10	1 1 1 1 1 1
1,000 1,000 1,000	100 100	10	1 1 1

+

Th	H	T	O
2	1	6	4
+	3	2	1

Th	H	T	O
1,000 1,000 1,000 1,000 1,000 1,000 1,000	100 100 100	10	1 1 1 1 1

Complete the subtractions.

a)

7	3	1	5
-	2	1	0

c)

7	3	1	5
-	5	4	2

b)

Th	H	T	O
1,000 1,000 1,000 1,000	100 100	10 10 10 10 10 10 10	1 1 1 1 1
1,000 1,000	100 100 100 100 100 100	10 10 10 10	1 1 1

+

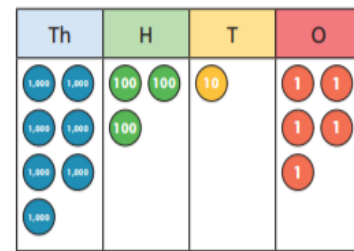
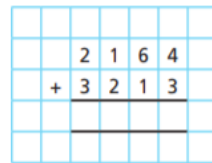
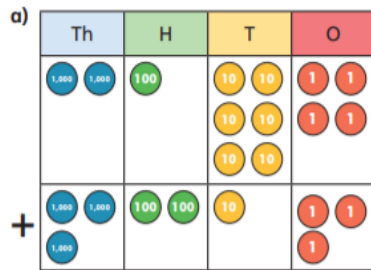
Th	H	T	O
4	2	7	5
+	2	6	4

b)

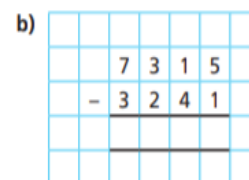
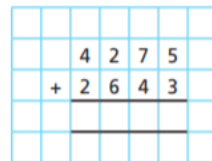
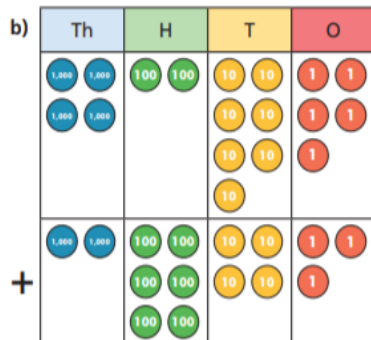
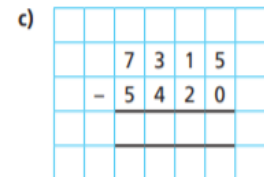
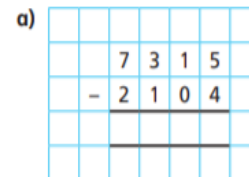
7	3	1	5
-	3	2	4

Spicy

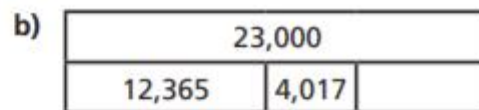
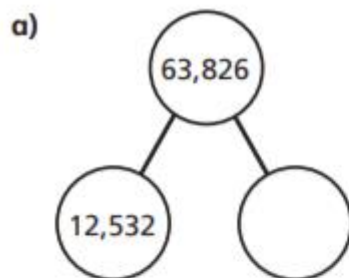
1 Complete the calculations.



Complete the subtractions.



Complete the models.



Mr Hall has written these subtractions on the board.

$$45,541 - 25,865$$

$$68,945 - 34,758$$

Rosie's workings

$$\begin{array}{r} 25865 \\ - 45541 \\ \hline 20324 \end{array}$$

Whitney's workings

$$\begin{array}{r} 68945 \\ - 34758 \\ \hline 34213 \end{array}$$

Explain the mistakes that Rosie and Whitney have made.

Wednesday

Multiples and Factors

Factors are numbers that divide exactly into another number.

For example, the factors of **8** are:

1, 2, 4, 8

Factors can be shown in pairs. Each pair multiplies to make **8**.

The factor pairs of **8** can be shown:

$$1 \times 8 = 8$$

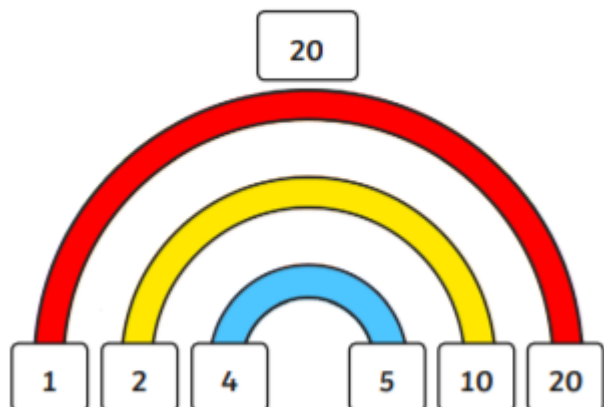
$$2 \times 4 = 8$$

Mild, Medium and Spicy - Log on to Timetable Rockstars and compete in the Battles we have set up!

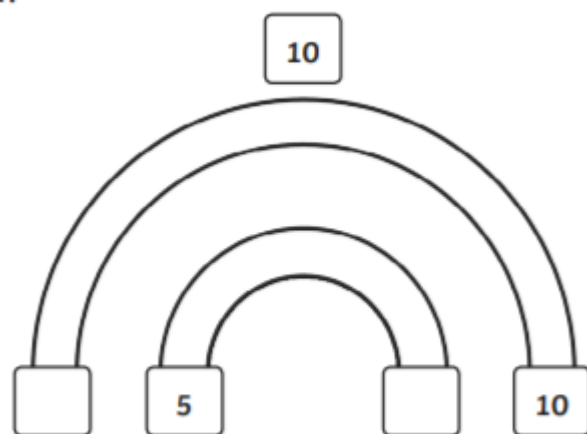


Then have a go at completing Factor Rainbows!

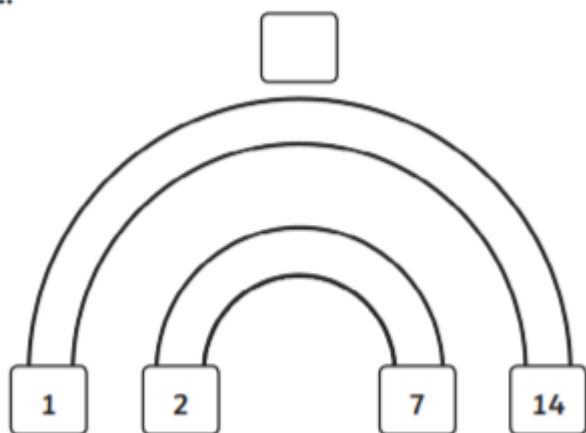
Multiply the numbers, colours and lines to complete the factor rainbows for each product. e.g.



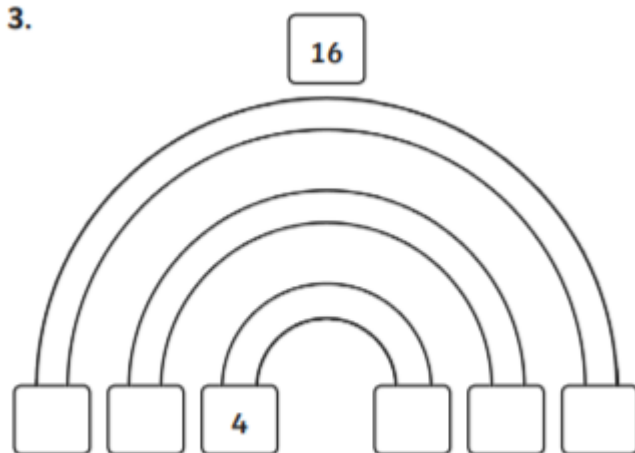
1.



2.



3.



Thursday

Challenge Day!

Challenge 1

Can you work out the values of each shape?

$$\star + \star = 20$$

$$\heartsuit - \star = 7$$

$$\heartsuit - \heartsuit = \blacktriangle$$

Challenge 2

Tom has six 10p coins and three 5p coins. He buys an apple for 59p and two pencils.

He has no money left. How much does a pencil cost?



Challenge 3

Here are some digit cards.



Amir and Donna each make a three-digit number using all the cards.

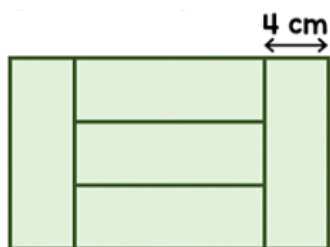
Amir notices that when he subtracts his number from Donna's number he gets an answer greater than 300 but less than 400.

What numbers did they make?

Challenge 4

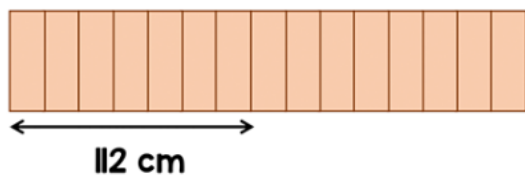
Five identical rectangles are put together to make a large rectangle.

The width of one rectangle is 4cm. Work out the perimeter of the large rectangle.



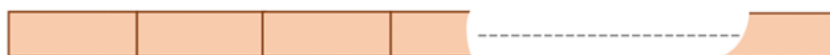
Challenge 5

15 identical blocks are lined up as shown.



The length of each individual block is twice the width.

If all 15 blocks are then laid end to end lengthways, what is the total length of the blocks altogether now?

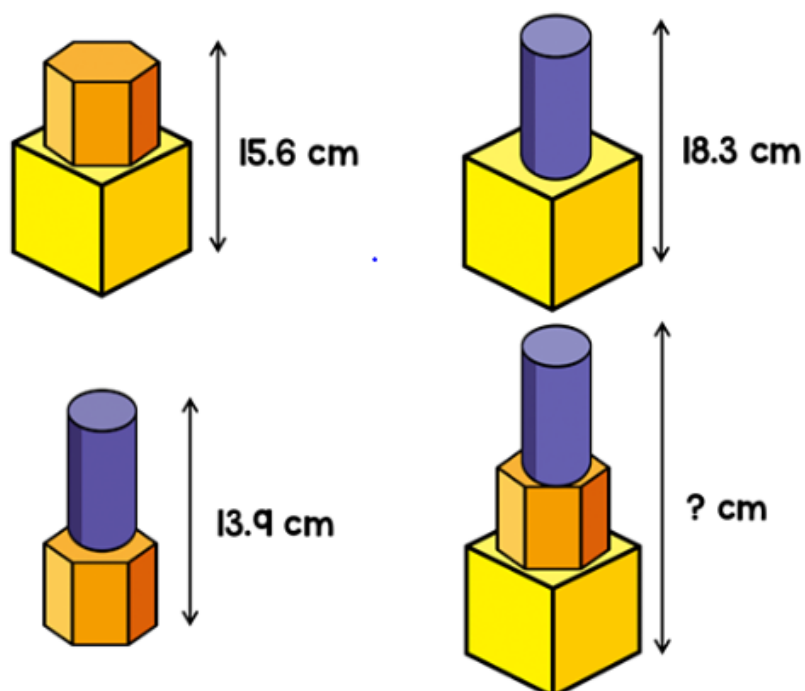


Challenge 6

Liam has these three shapes.



He uses them to make different towers. He measures the height of each tower he makes.

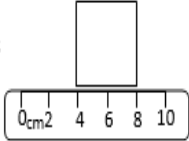
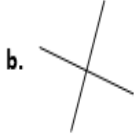


Liam stacks all three shapes to make one tall tower. How tall is the tower?

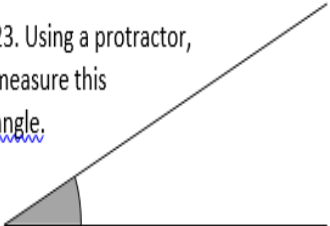
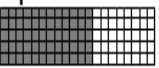
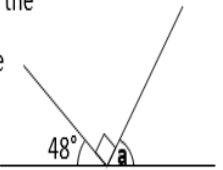
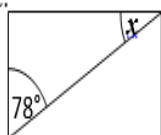
Friday

Key Skills and Rockstars

Mild

A: Place Value, Add and Subtract		B: Multiply, Divide and Fractions		C: Measure and Geometry	
1. What is 10 less than this number? 106	3:1	11. $64 \div 8 =$	3:10	23. How many grams are there in 2 and a half kilograms?	3:19
2. What is the 6 worth in this number? 962	3:2	12. $6 \times 4 =$	3:10		
3. Write < or > to make this correct: 245 254	3:3	13. $32 \times 2 =$	3:11	22. What is the perimeter of this square?	3:20
4. Show 8°C on the thermometer.	3:4	14. There are 3 girls for every 2 boys. If there are 10 boys, how many girls?	3:12		
5. Make the largest number possible using the digits 6 3 and 8.	3:5	15. What is one tenth of 12?	3:13	23. Ian turns through half a turn. How many degrees has he turned through?	3:26
6. $299 + 1 =$	3:6	16. Circle $\frac{5}{7}$ of the marbles.	3:14		
7. $389 - 237 =$	3:7	17. What is $\frac{2}{5}$ of 25?	3:15	24. Is this angle bigger or smaller than a right angle?	3:27
8. Circle the best estimate to 119 - 58: 60 70 80 90	3:8	18. $\frac{4}{12} = \frac{?}{3}$	3:16		
9. A school has 700 tickets to sell for a play. They sell 537. How many left?	3:9	19. Add the fractions. $\frac{2}{7} + \frac{4}{7}$	3:17	25. Which pair of lines are perpendicular?	3:28
10. What is the missing number? $33 + \square - 24 = 27$	3:9	20. Write the largest fraction. $\frac{1}{5} \frac{1}{3} \frac{1}{4} \frac{1}{2}$	3:18	a.  b. 	
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	

Medium and Spicy

A: Place Value, Add and Subtract		B: Multiply, Divide and Fractions		C: Geometry and Problem Solving	
1. What is the value of the 9 in this number? 2,934,765	5:1	11. Circle all the multiples of 11. 11 54 78 121	5:8	21. A jug had 1.317 litres in it. A further 0.923 litres was added to it.	5:18
2. Write fifty seven thousand, two hundred and thirty eight in digits.	5:1	12. Circle the composite (non-prime) numbers? 2 3 9 13 15	5:9	How many litres are in the jug now?	
3. Round 163,824 to the nearest hundred thousand .	5:2	13. $4,962 \times 6$	5:10	22. Which of these is the largest?	5:19
4. What is the missing number? 366,270 266,270 66,270	5:2	14. $670.2 \div 10$	5:11	a. 55% b. $\frac{3}{5}$ c. 0.4	
5. Find the difference in temperatures. London -1°C Glasgow -9°C	5:3	15. Complete this sequence of cube numbers . 1 8 64	5:12	23. Using a protractor, measure this angle.	5:25
6. Write this number in Roman Numerals: 509	5:4	16. Write $<$, $=$ or $>$ to make this correct: $\frac{1}{3}$ $\frac{5}{9}$	5:13		
7. $85,248 - 38,049 =$	5:5	17. Find an equivalent fraction of $\frac{6}{10}$. 	5:14	24. Calculate the missing angle labelled a: 	5:26
8. $38,049 + 85,248 =$	5:5	18. Write $4\frac{1}{2}$ as an improper fraction .	5:15		
9. Complete this sum without written working. $13,200 + 6,450 =$	5:6	19. $\frac{5}{8} \times 24 =$	5:16	25. A diagonal has been drawn through this rectangle. 	5:27
10. 38,276 seats out of 40,000 are taken. How many are empty?	5:7	20. Round 3.71 to the nearest whole number.	5:17	Calculate the angle labelled x.	
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	

English

After watching the videos and having a go at the practise activities have a go at these activities. Depending on your confidence choose Mild, Medium or Spicy.



Monday

<https://www.bbc.co.uk/bitesize/articles/zkygrj6>

Similies and Metaphors

What is a metaphor?

A metaphor is a word or a phrase used to describe something as if it were something else.

For example: **A wave of terror washed over him.**

The terror isn't actually a wave, but a wave is a good way of describing the feeling.

Another **example** is: **Jess is dynamite.**

She's not made of dynamite, but it's a way to explain how exciting she is.

What is a simile?

A simile describes something by comparing it to something else, using *like* or *as*.

For example:

The snake moved like a ripple on a pond.

It was as slippery as an eel.

Jess is as graceful as a gazelle.

Using metaphors and similes can make your writing more descriptive and interesting.

Complete practise activities 1, 2 and 3.

Deeper Learning

Extension task

Get creative by using these simile and metaphor inspiration cards to create your own poem.

You could choose one image or be inspired by a few. It's up to you!

Aim to use as many similes and metaphors as you can.

Link for inspiration cards -

https://bam.files.bbc.co.uk/bam/live/content/zvd3bdm/pdf#sa-link_location=blocks&intlink_from_url=https%3A%2F%2Fwww.bbc.co.uk%2Fbitesize%2Farticles%2Fzkygrj6&intlinkts=1587380014329-sa



More? - Purple Mash alien poem on your 2Dos

Tuesday

<https://www.bbc.co.uk/bitesize/articles/zf3492p>

Using and understanding Aliteration

Alliteration is when words **start with the same sound**.

For example: Sammy the slippery snake came sliding.

Alliteration is used in both written and spoken English. You can find examples in poetry, advertising and events commentary.

It is often used in newspaper headlines to grab the reader's attention.

Complete practise activities 1, 2 and 3.

Word bank

a - apple, ant, anchor, axe, astronaut

b - button, beads, bear, bird, beetle, boat, blue item, beans, bell, bat, ball

c - cat, carrot, car, caterpillar, cloud, cake, collar, coat

d - dog, dandelion, daisy, dice, duck, dinosaur

e - egg, elephant, elf, envelope

f - fish, feather, football, flower, flag,

g - grass, goat, gate, goose, guitar, ghost

h - hat, hair, helicopter, heart, house, hammer, horse

i - igloo, ink, invitation

j - jelly, jam, jumper, jug

k - kangaroo, kite, key, koala, king

l - lips, leaf, lego, lid, lemon, lion, ladybird

m - milk, magnet, monkey, mouse

n - nut, nose, nest, newspaper, necklace, net

o - orange, orange-coloured item, ostrich, otter, octopus

p - pom-pom, paper, pig, pirate, pasta, pencil, panda, penguin

q - queen, question mark

r - rainbow, rabbit, rice, red item, rocket, robot, ring

s - stick, snake, sand, sock, spider, seeds, soap

t - tomato, tent, train, teddy, tiger

u - umbrella, underwear, ugly sisters

v - van, volcano, vampire, vet, violin

w - whistle, wolf, wood, windmill, wool

x - box, fox, x-ray, xylophone

y - yellow item, yoyo, yak

z - zip, zebra, zigzag, zoo

ch - chip, chocolate, church, cheese, chick

sh - shark, shoes, shop, sheep, shell, shrimp

th - thumb, three, thorn, thought bubble, thimble

Deeper Learning

Just like all the best authors, they always do multiple drafts of their work. With this in mind, re-write or edit your poem from yesterday by now including some aliteration. If you didn't do

the poem yesterday, you can use the pictures from Monday to write a poem using aliteration to describe what you see. Remember, **poems do not need to rhyme**, it is more about description.

Wednesday

<https://www.bbc.co.uk/bitesize/articles/zkn3bdm>

Writing a newspaper report

Things to remember when writing your own newspaper article:

- Make your headline short and snappy.
- In the first sentence sum up what the story is about.
- Write your report in the third person and the past tense.
- Split your newspaper report up into paragraphs to help the reader clearly understand the information.
- If you use quotes to make your report more interesting, don't forget to use speech marks!
- Use a photo with a caption to give the reader more information.
- Fill your newspaper report with both facts and opinions. Facts give the reader all of the information they need by using the 5 Ws.

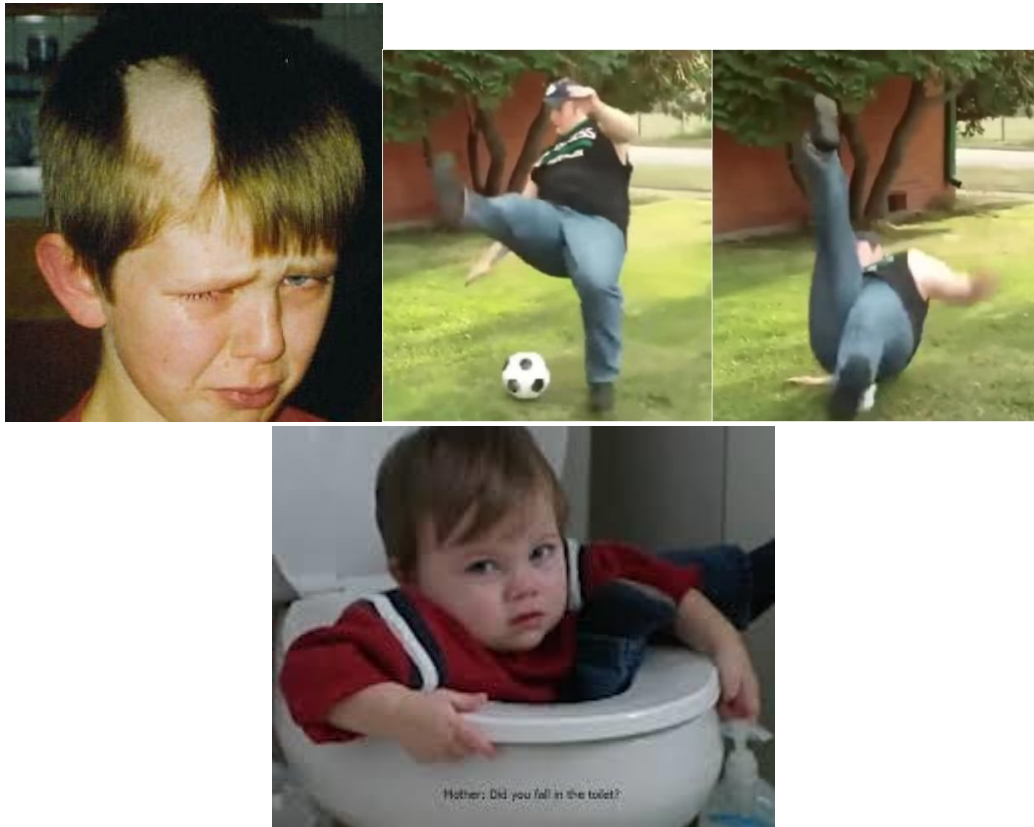
Complete practise activities 1 and 2 (not 3)

Activity 3

Using your practise and the prompts from the webpage, write a newspaper report about an event that has happened during your time off from school. It could be something funny that happened to you or a family member. It could be a new skill that you have learned in your time off and report it as if it is a

major news story. Choose something that really stands out to help with your ideas.

Challenge – Newspaper reports sometimes contain similes and metaphors and definitely some alliteration. Include some in your work!



More? – There are a number of templates for newspaper reports on Purple Mash. Just type in to the search bar “newspaper” and at the bottom you will see templates on alien invasions or popstars visiting your local area!

Thursday

<https://www.bbc.co.uk/bitesize/articles/z4d6t39>

Expanded Noun Phrases

Complete activities 1 and 2.

Then, choose one of the following activities:

- Imagine your favourite food and describe it in a paragraph using as many expanded noun phrases as possible.
- Choose your favourite place to be and describe it in a paragraph with as many expanded noun phrases as you can.
- Use your imagination to think of an imaginary place you would like to live in. I will have no idea what this place looks like so I need you to describe it with as many expanded noun phrases as you can.

Similies and metaphors should be used in your paragraph too.

<https://www.youtube.com/watch?v=4fCk8ye4jio> – Video for further guidance on expanded noun phrases.

More? – Follow the link below to find an activity based on applying expanded noun phrases to your work (via Purple Mash)

https://static.purplemash.com/mashcontent/applications/guides/grammar_worksheets_Y4c/Grammar%20Printables%20Y4c%20-%20Expanded%20noun%20phrases.pdf

Friday

<https://www.bbc.co.uk/bitesize/articles/zn8bgwx>

Using the novel *To Be a Cat* you will learn about selecting key pieces of information from a text and evaluating the text while giving a personal opinion.

This lesson includes:

- two videos of Rugby player Maro Itoje reading extracts from the book

Today, we will focus on our comprehension and reading skills (our Reading Vipers). Listen to the videos and read the extracts and work through the activities. It would be superb if you could talk through your answers with an adult first to help shape and extend your answers.

Fun - Enjoy the rest of your day with some activities from the Puffin website. There are drawing tutorials, quizzes and many other things to do based around your favourite books.