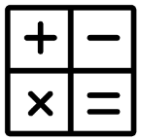
January Maths Masters

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
 Have a go at each of the questions for January. Can you draw your working out? Can you show it using a written method? Can you talk to someone about how you worked out your answers?				1 What is three quarters of 60? Can you draw it to help?	2 What is 157-92? Can you find 3 other pairs of numbers with the same difference?	3 What is today's date in Roman Numerals?
4 What is half of 138? Can you work it out in 2 ways?	5 What are the multiples of 9? What do you notice?	6 What is 1238 rounded to the nearest 10? Nearest 100?	7 List all the multiples of 6 between 20 and 80.	8 How many ways can you make £3.51? Are there more than 5 ways?	9 What is double 73? Can you work this out in two different ways?	10 What number is half way between 15 and 39? How did you work it out?
11 What is a multiple? What are the multiples of 7?	12 What's smaller: 315 or 351? How do you know?	13 Trevor says, "200-54 is 156". Do you agree? Why? Why not?	14 Partition the number 472 at least 5 different ways.	15 If I have £10 and I spent £4.16, then £1.98. How much did I spend? How much change should I get?	16 Can you draw 3 different pentagons? What is a pentagon?	17 Calculate 3 x 12. What other calculations give you the same answer?
18 Place these numbers on a 0-1 number line: 0.5, 0.36, 0.25, 0.09, 0.91, 0.8.	19 What is the difference between 1068 and 371?	20 What's shorter – 355cm or 3.5m? How do you know?	21 Draw the net of a cuboid and describe the faces.	22 What number is missing in the sequence? How do you know? 2, 4, 8, ___, 32.	23 What's the missing number in this calculation? 394 + ☐ = 1000	24 Can you write a rule for all of the multiples of 5?
25 Multiply these numbers by 4: 8 13 19 21	26 What is 64 divided by 5? Do you get a whole number? Why? Why not?	27 Describe how to find the missing number in this calculation: ☐ x 5 = 250	28 One third of a number is 15. What was the number? How do you know?	29 I left for a walk at 5:05pm and walked for 65 minutes. What time did I get home?	30 What is the total of 504, 638, 2015 and 7? Estimate first then calculate.	31 **TRICKY QUESTION:** Can a shape have the same area and perimeter?