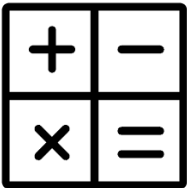


# December Maths Masters

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	1 How many ways can you make £3.72? Are there more than 5 ways?	2 What is the difference between $\frac{3}{7}$ and $\frac{1}{8}$ ? How do you know?	3 What is the odd number out and why: 50, 30, 60, 90?	4 What is the product of $\frac{4}{7}$ and 3? Can you draw your working out?	5 What is the product of 341 and 17? What does product mean?	6 $392 \times 5 = 1960$ . How does this help you work out $392 \times 50$ ?
7 Write 4 equivalent fractions to $\frac{2}{7}$ .	8 What's next in this sequence: 13, 10, 6, 1, _____. How do you know?	9 Simplify these fractions: $\frac{12}{20}$ $\frac{15}{40}$ $\frac{16}{48}$	10 List all of the prime numbers between 30 and 60.	11 Draw a cuboid. Describe the properties using mathematical vocabulary.	12 Round these numbers to the nearest 10, 100 and 1000: 5096/3987/1670.	13 Can a shape have the same perimeter as area? Prove it.
14 What is the difference between 19474 and 242784?	15 Can you draw the net of a triangular prism?	16 Write these decimals in words and as fractions: 0.53      0.75 0.07      0.25	17 Order these numbers: 0.7, 0.71, 0.07, 0.17. Explain how you did it.	18 If $9c + 12 = 84$ , what is the value of c? What is the value of $5c$ ?	19 What is today's date in Roman Numerals? What was yesterday's?	20 What time is 16:07 in words? Can you draw it on a clock face?
21 Put these fractions on a 0-1 number line: $\frac{1}{2}$ $\frac{3}{5}$ $\frac{1}{3}$ $\frac{3}{4}$ $\frac{9}{10}$	22 What's bigger $\frac{5}{7}$ or $\frac{7}{5}$ ? How do you know?	23 How many grams are the same as 3.05kg? How do you know?	24 What is the total of 635, 530, 728 and 37? How can you check?	25 Can you name the different kinds of triangle? Can you draw them?	26 If $p = 7$ and $r = 12$ , complete these: $s = 2p + r$ $m = (p+r) \times 3$ $f = 7p + 5r$	27 Jake says, "All of the multiples of 3 are also multiples of 6." Do you agree? Why?
28 Three quarters of a number is 51. What is one quarter? What is the number?	29 What are the multiples of 60? Can you list them all?	30 What is the perimeter of a rectangle which measures 13cm by 7cm? What is its area?	31 <b>TRICKY QUESTION:</b> How many hours have you attended school since September?	Have a go at each of the questions for December. 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?		