

A LITTLE BIT OF MATHS EVERY DAY ...

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
<h1>MARCH 2017</h1>		1 Calculate: $1\frac{2}{5} \div \frac{3}{4}$	2 Which is faster? 80 km per hour or the speed I am travelling at if I do 15 km in 10 minutes	3 Calculate 0.2×0.3 $1.2 \div 0.2$	4 I travel from "A" to "B" at an average speed of 50 mph. I then travel from "B" to "C", which is 210 miles at an average speed of 70 mph. My total journey time is 5 hours. What is my average speed for the total distance travelled from "A" to "C"?	5
6 Factorise fully $4ab + 12a^2b^2$	7 Work out the value of $(3 \times 10^8) \div (6 \times 10^7)$	8 Solve $2x^3 = 128$	9 Write these in size order - from smallest to largest $2^5 \quad 4^3 \quad 16 \quad 64^0$	10 Simplify fully $\frac{m^{0.5} \times m^6}{m^3}$	11 A TV is reduced by 30% in a sale. The sale price of the television is £350 Work out the normal price of the television.	12
13 Robert has a biased coin; the probability that the coin will land on heads is 0.6. What is the probability of flipping the coin three times and getting a tails all three times?	14 Without a calculator, work out: 349×54	15 I invest some money in account that pays compound interest of 5% per annum. How many years does it take to double my money?	16 List all the factors of 32	17 What is the value of n ? $2^3 \times 2^n = 2^9$	18 An adult meal costs £4.50 and a child's meal costs £2.75 Will £500 be enough to pay for meals for 84 adults and 42 children?	19
20 Simplify $2a^2 + 2(3a - 5)$	21 Draw a venn diagram representing the below: $\mathcal{E} = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$ A = {even numbers} B = {multiples of 3}	22 Calculate: $3\frac{3}{5} \times 2\frac{1}{7}$	23 Expand and simplify $(x + 4)(x - 6)$ $4xy(2x + 3y)$	24 The length, L cm, of a pencil is measured as 17cm correct to the nearest centimetre. What is the error interval of L?	25 Adam thinks of a number. He divides his number by 6 He then adds 13 His answer is 16 What number did Adam first think of?	26
27 Expand & simplify $(3x + y)(x + 2y)$	28 Simplify $4e + 6f + 3e - 2f$	29 Lois and Robert share a sum of money in the ratio 2 : 5 Lois has £45 more than Robert. How much does Robert have?	30 Estimate $\frac{6.8 \times 191}{0.051}$	31 Find the fourth term of this quadratic sequence: $n^2 + 3n - 2$	<h2>REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"!</h2>	