

MONDAY

TUESDAY

WEDNESDAY


THURSDAY

FRIDAY

SATURDAY

SUNDAY

APRIL 2017

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					1 2 Three glasses of squash are made using cordial and water. The different mixtures are Glass A cordial : water = 3 : 12 Glass B cordial = $\frac{1}{8}$ of the total volume Glass C Cordial = 12.75% of the total volume Which cup has the greatest proportion of cordial?	
3 Factorise fully $y^2 + 27y$ $x^2 - 16$	4 Work out the value of $(6 \times 10^5) \div (3 \times 10^7)$	5 Solve $5x^2 = 80$	6 What is the square root of 100 Million?	7 Simplify fully $\frac{m^{1.5} \times m^{-5}}{m^3}$	8 9 Rachael took a maths test. She scored 28 marks out of 40. David took an English test. He scored 32 marks out of 47. To get an "A" 70% must be achieved. Did either of them get an "A"?	
10 Mel says "when you square a number the answer will always be even". Is Mel correct? Justify your answer	11 Without a calculator or without doing the exact calculation, explain why the following is wrong: $3.8 \times 5.4 = 183.2$	12 I invest £140 in account that pays compound interest of 5% per annum. How much interest will I earn in 5 years?	13 Write 64 as a product of its prime factors	14 What is the value of n? $2^2 \times 2^n = 2^3$	15 16 Alfie has 20 sweets. Ben also has 20 sweets. Alfie gives Ben x sweets. Alfie then eats 5 of his sweets. Ben then eats half of his sweets. Write expressions for the number of sweets each of them has?	
17 Change 72 km/h into m/s.	18 180g of copper is mixed with 105g of zinc to make an alloy. The density of copper is 9 g/cm ³ and the density of zinc is 7 g/cm ³ . Work out the volume of copper used in the alloy.	19 Calculate: $3\frac{3}{5} \div 2\frac{1}{7}$	20 Expand and simplify $(2x - 4)(x - 6)$ $7xy(2x - 3)$	21 A number "x", is rounded to 8.4 correct to one decimal place. What is the error interval of x?	22 23 Solve the simultaneous equations $4x + y = 25$ $x - 3y = 16$	
24 Give an example to show that the sum of four consecutive integers is not always divisible by 4	25 x and y are whole numbers. $x > 50$ $y < 40$ Work out the smallest possible value of $x - y$	26 The cost of a weekly train ticket increases by 12.5% to £225 How much did weekly train ticket cost before this increase?	27 There are 17 men and 22 women in a choir. One of the men and one of the women are going to be chosen sing the first song together. How many different pairs could be chosen?	28 Explain why 21 is not a term in the sequence $3n + 5$.	29 30 Giving reasons, calculate "x" 	

REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"!