MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
JAN 2019	**1** $D = 16$ A circle has a radius of 8 cm, what is its circumference? $C = 16\pi$ cm	**2** 2, 3, 5, 7 What is the sum of 4th prime number 7 and the 5th cube number? 125 132	**3** The nth term of a sequence is $10 - n^2$ Find the third and tenth terms of this sequence. 3rd term = 1 10th term = -90	**4** 2 4 2 8 1 5 6 Mel says the range is 4. Is Mel correct? no. 8 - 1 = 7	**5** The area of a rectangle is $100 cm^2$ The length of the rectangle is 4 times its width. Work out the width of the rectangle. width = 5 length = 20	**6**
7 Calculate $3\frac{3}{7} - \frac{3}{5}$ $\frac{99}{35}$	**8** Factorise: $4xy^2 + 2x^2y + 8xy$ $2xy(2y + x + 4)$	**9** Solve $\frac{2x + 6}{4} = 5$ $x = 7$	**10** Solve $3x + 5 > x + 17$ $x > 6$	**11** Work out 125% of £420 £525	**12 / 13** A garage has 50 cars for sale. 16 of the cars have air conditioning and ABS brakes. 32 of the cars have air conditioning. 18 of the cars have ABS brakes. Work out how many of the cars do not have air conditioning or ABS brakes. 16	
14 Write down the ratio 400grams:1.2kilograms in its simplest form 1:3	**15** The density of zinc is 7 g/cm^3. Calculate the mass of a cube of zinc with side 0.5m. 875kg	**16** The price of a washing machine is reduced by 17.5% if the reduced price is £264 what was the original price? £320	**17** Calculate $1\frac{2}{7} + 0.25$ $\frac{43}{28}$	**18** What is the area of a circle with a diameter of 15 cm? r=7.5 = 56.25π cm^2	**19 / 20** The product of three numbers is 312. Two of the numbers are 3 and 13. What is the third number? 8 $312 \div 39 = 8$	
21 The length, L cm, of a line is measured as 16 cm correct to the nearest centimetre. What is the error interval? $15.5 \le L < 16.5$	**22** Write 94 as a product of its prime factors. 2×47	**23** Expand $3x(2x - x)$ $3x^2$	**24** What information must be given to decribe a rotation? centre, direction, and angle of rotation	**25** What is the value of y when x = - 3 in $y = x^2 + x - 4$ (a) -3 - 4 $y = 2$	**26 / 27** Christian saves 10p and 20p coins. He has three times as many 10p coins as 20p coins 34 He has a total of £17 £6.80 How many 10p coins does he have? 102 102 £10.20	
28 Madison and Vinnie share some money in the ratio 2:5. What fraction of the total does Vinnie have? $\frac{5}{7}$	**29** Write 164×10^3 in standard form 1.64×10^5	**30** Make t the subject of: $s = 1 - 2t$ $t = \frac{1 - s}{2}$	**31** List the prime numbers between 30 and 50 31, 37, 41, 43, 47	**REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"!**		