
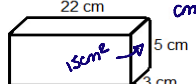


MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
<h1>JULY 2016</h1> <p>REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"!</p>				1 A TV programme starts at twenty to nine in the evening. Write this as a 24-hour clock time. $8:40\text{pm} = \underline{20:40}$	2 The perimeter of the rectangle is the same as the perimeter of the square. Work out the length of one side of the square. $\text{Perimeter of square} = 16$ $16 \div 4 = \underline{4\text{cm}}$ $3 \text{ P: } 16\text{cm}$ s 	3
4 What is 6 divided by 0.5? $6 \div \frac{1}{2} = \underline{12}$	5 Paula is buying a new car for £8500. She has to pay a 15% deposit How much is the deposit? $\underline{£1275}$	6 Expand $3x^4y^2(2x^2 + 4xy)$ $6x^6y^2 + 12x^5y^3$	7 List the first seven prime numbers. <u>2, 3, 5, 7, 11, 13, 17</u>	8 I am thinking of a number between 1 and 20. It is not an even number but it is a multiple of 3 and it is also a square number. What is the number? <u>9</u>	9 Alan thinks of a number. He multiplies the number by 5 and then subtracts 7. His answer is 5. What number did Alan think of? $2.4 \times 5 = 12$ $12 - 7 = \underline{5}$ <u>2.4</u>	10
11 5 15 7 16 15 2 29 From the above list, find: - the median <u>15</u> - the mean <u>12.7 (10p)</u>	12 A square has an area of 4m^2 . What is the area in cm^2 ? <u>$40,000\text{cm}^2$</u>	13 Write down the first 4 terms of the sequence $2n^3 + 3$ <u>5, 19, 57</u>	14 Solve $2p + \frac{2}{-2} = \frac{11}{-2}$ $2p = 9$ $p = 4.5$	15 Solve $7n < 5n + 11$ $-5n < -5n$ $2n < 11$ $n < 5.5$	16 Find four different integers between 1 and 9 inclusive that have: - a mean of 6 <u>add to 24</u> - a range of 5 <u>9, 4, 6, 1, 8</u> <u>3 6 7 8</u> ✓ range = 5 mean = 6	17
18 What is the volume? $15 \times 22 = 330$ cm^3 	19 Work out 12.5% of £1100 without a calculator <u>£137.50</u>	20 All items in a sale are reduced by 60%. How much will a £12 item cost in the sale? <u>£4.80</u>	21 Expand and simplify: $(2x - 3)(x - 5)$ $2x^2 - 10x - 3x + 15$ <u>$2x^2 - 13x + 15$</u>	22 A regular polygon has interior angles of 135° . How many sides does this polygon have? <u>8 sides</u>	23 The height, H cm, of a table is measured as 68 cm correct to the nearest centimetre. Complete the following statement to show the range of possible values of H. <u>$67.5 \leq H < 68.5$</u>	24
25 Simplify $m^{-3} \div m^{-7}$ $-3 + 7 = 4$ <u>m^4</u>	26 Factorise $24p^2q - 8p^2$ <u>$8p^2(3q - 1)$</u>	27 Work out $(4 \times 10^5) \times 3000$ without a calculator <u>1.23×10^9</u>	28 Calculate the largest share when £400 is shared in the ratio 1 : 2 : 5. <u>£250</u>	29 Write 501 000 in standard form <u>5.01×10^5</u>	30 Four of the interior angles of a seven-sided polygon are 111° , 150° , 160° and 170° . The other three interior angles of this polygon are equal. Calculate the size of each of the other three interior angles. <u>309°</u> $309 \div 3 = 103$	31