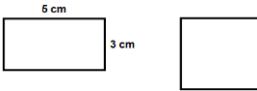
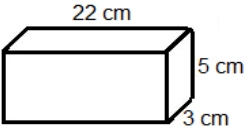


JULY ... A LITTLE BIT OF MATHS EVERY DAY

<p>1 Four of the interior angles of a seven-sided polygon are 111°, 150°, 160° and 170°.</p> <p>The other three interior angles of this polygon are equal. Calculate the size of each of the other three interior angles.</p>	<p>2 Expand $3x^4y^2(2x^2 + 4xy)$</p>	<p>3 List the first seven prime numbers.</p>	<p>4 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?</p>	<p>5 The perimeter of the rectangle is the same as the perimeter of the square. Work out the length of one side of the square.</p> 
<p>6 5 15 7 16 15 2 29 From the above list, find: - the median - the mean</p>	<p>7 Alan thinks of a decimal number. He multiplies the number by 5 and then subtracts 7. His answer is 5. What number did Alan think of?</p>	<p>8 Solve $2p + 2 = 11$</p>	<p>9 Solve. $7n < 5n + 11$</p>	<p>10 A square has an area of $4m^2$. What is the area in cm^2? Write down the first 4 terms of the sequence $2n^3 + 3$</p>
<p>11 What is the volume?</p> 	<p>12 Work out 12.5% of £1100 without a calculator</p>	<p>13 All items in a sale are reduced by 60%. How much will a £12 item cost in the sale?</p>	<p>14 Expand and simplify: $(2x - 3)(x - 5)$</p>	<p>15 A regular polygon has interior angles of 135°. How many sides does this polygon have? Find four different integers between 1 and 9 inclusive that have: - a mean of 6 - a range of 5.</p>
<p>16 Simplify $m^{-3} \div m^{-7}$</p>	<p>17 Factorise $24p^2q - 8p^2$</p>	<p>18 Work out $(4.1 \times 10^5) \times 3000$ without a calculator</p>	<p>19 Calculate the largest share when £400 is shared in the ratio 1 : 2 : 5.</p>	<p>20 Write 501 000 in standard form Paula is buying a new car for £8500. She has to pay a 15% deposit. How much is the deposit? Work out $\frac{2}{5} + \frac{3}{8}$</p>
<p>21 Without a calculator what is 57×48?</p>	<p>22 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. $\leq H <$</p> <p>23 REMEMBER: The best way to revise maths is to "do Maths"!</p>			