

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY																				
<h1>MAY 2016</h1>						1 Work out 17.5% of £180 without a calculator £31.50																				
2 Share £320 in the ratio 5 : 3 £200 : £120	3 Evaluate 2^0 1	4 Expand $2xy(x^2 + 3y)$ $2x^3y + 6xy^2$	5 Work out 12.34×9 without a calculator 111.06	6 $£1 = 8.70$ kroner In Norway a purse costs 450 kroner. £51.92 A similar hat in Britain costs £50. Where is the cheapest? BRITAIN	7 Complete the two way table <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>blue eyes</th> <th>brown eyes</th> <th>green eyes</th> <th>total</th> </tr> </thead> <tbody> <tr> <th>boys</th> <td>5</td> <td>3</td> <td>4</td> <td>12</td> </tr> <tr> <th>girls</th> <td>6</td> <td>7</td> <td>5</td> <td>18</td> </tr> <tr> <th>total</th> <td>11</td> <td>10</td> <td>9</td> <td>30</td> </tr> </tbody> </table>		blue eyes	brown eyes	green eyes	total	boys	5	3	4	12	girls	6	7	5	18	total	11	10	9	30	8
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9 In a sale, normal prices are reduced by 20% The normal price of a coat is reduced by £15 . Work out the normal price of the coat. £75	10 Write 501 in standard form 5.01×10^2	11 What are the 3rd and 5th terms of the sequence: $10 - n^2$ $10 - 3^2 = 10 - 9 = 1$ $10 - 5^2 = 10 - 25 = -15$	12 Simplify $\frac{m^7 \times m^{-5}}{m^3}$ $\frac{m^2}{m^3} = m^{-1}$	13 Solve. $5x + 1 > x + 11$ $4x > 10$ $x > 2.5$	14 Alfie, Ben and Chris play football. • Alfie has scored 8 more goals than Chris. 25 • Ben has scored 5 more goals than Alfie. 30 • Altogether they have scored 72 goals. How many goals did they each score? 17	15 																				
16 A square has an area of $4m^2$. What is the area in cm^2 ? $40,000cm^2$	17 Work out 22.5% of £420 without a calculator £94.50	18 The n th term of a sequence is $3n + 5 = 108$ $3n = 103$ Is 108 a term of this sequence? $n = \frac{103}{3}$ is not a whole number so 108 is not in the sequence.	19 Write 504 as a product of powers of its prime factors. $2^3 \times 3^2 \times 7$	20 Expand $(2x + 2)(x + 3)$ $2x^2 + 6x + 2x + 6$ $2x^2 + 8x + 6$	21 There are 6780 people are at a rugby match. 3879 of the people are men. 1241 of the people are women. One quarter of the children are girls. $\frac{1}{4}$ of 1640 Work out how many boys are at the rugby match. $\frac{3}{4}$ of 1640 = 1230	22 2881 1640																				
23 Simplify $m^7 \div m^{-3}$ $m^{7-(-3)} = m^{10}$	24 Expand $p^3q(p^2q - 2p^2)$ $p^5q^2 - 2p^5q$	25 Work out (a) 0.3×0.2 0.06 (b) 0.4×0.3 0.12 without a calculator	26 Put brackets in this calculation to make it correct. $(5 - 3) \times (12 \div 4) = 8$	27 Work out an estimate for $\sqrt{(4.97 \times 2.2 \times 9.95)}$ $\sqrt{5 \times 2 \times 10}$ $\sqrt{100}$ = 10	28 Calculate x $\tan 35^\circ = \frac{x}{4}$ $x = 4 \times \tan 35^\circ$ = 4	29 																				
30 Factorise $3xy^3 - 9x^2$ $3x(y^3 - 3x)$	31 What is the below fraction as a decimal? $\frac{2}{3}$ 0.6 NOT 0.6!!	REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"!																								