

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
JANUARY 2017						<p>What is the nth term of the sequence?</p> $-3n + 26$ <p>26 23 20 17 14 -3 -3 -3 -3</p>
<p>Without a calculator, work out:</p> $142 \times 87 = 12354$	<p>The angles in a triangle are in the ratio 1 : 2 : 3.</p> $180 \div 6 = 30$ <p>Is this is right angled triangle? How can you prove it?</p> $30^\circ: 60^\circ: 90^\circ \leftarrow \text{yes it is!}$	<p>Calculate:</p> $\frac{2}{5} \text{ of } 60 \frac{1}{5} = 12$ $\frac{2}{5} = 24$	<p>Calculate</p> $2 \times 10^{-2} \div 8 \times 10^{-3}$ $0.02 \div 0.008 = 2.5$	<p>Estimate the value of</p> $\frac{4 \times 20}{10} = \frac{80}{10} = 8$ $(4.34 \times 19.2) \approx 11.4$	<p>Explain how you know line AB is a straight line</p> <p>The sum of the two angles adds up to 180°</p> <p>43° 137°</p> <p>A B</p> $\frac{43}{+137} = \frac{180}{180}$	<p>1</p>
<p>Which is larger?</p> $(3.8 \times 10^3) = 3800$ <p>or $3800 \times 10^{-2} = 38$</p>	<p>Without a calculator, work out:</p> $0.2 \times 0.03 = 0.006$	<p>True or False? F</p> <p>"When you multiply two prime numbers together the answer is always an odd number!!"</p> <p>2x3=6 ← even!!</p>	<p>Which of the following numbers are prime?</p> <p>1 7 9 11 16</p> <p>x ✓ x ✓ x</p>	<p>Work out</p> $m^{0.5} \times m^{4.2} = m^{4.7}$	<p>A car uses 1 litre of fuel for every 15 miles it travels. How many litres are used to travel 180 miles?</p> <p>12 (12L = 180miles) x12</p>	<p>2</p>
<p>Simplify</p> $5a - (2a + 6)$ $5a - 2a = 3a$ $3a - 6$	<p>Put brackets in this calculation to make it correct.</p> $((5 - 3) \times 12) \div 4 = 6$	<p>Simplify</p> $(t^{-3})^2 = t^{-6}$	<p>What is the square root of 100 million?</p> $10,000$	<p>A square has an area of 64cm^2</p> <p>What is its perimeter?</p> $4 \times 8 = 32\text{cm}$	<p>There are 540 students in a school. 240 of the students are girls. 15% of the boys are older than 16. How many boys are over 16 years of age?</p> <p>540 - 240 = 300</p> <p>15% of 300 = 45</p> <p>10% = 30</p> <p>5% = 15</p> <p>15% = 45</p>	<p>3</p>
<p>Expand & simplify</p> $(x - 1)(x - 5)$ $x^2 - 6x + 5$	<p>Find the HCF of 12 and 22</p> $\frac{12}{2} = 6$ $\frac{22}{2} = 11$ $6 \times 11 = 66$	<p>Calculate:</p> $\frac{2}{3} - \frac{5}{8} = \frac{16}{24} - \frac{15}{24} = \frac{1}{24}$	<p>How many 4-digit numbers less than 8000 can be made using the below cards:</p> <p>18</p> <p>2 4 5 8</p>	<p>Write the ratio in its simplest form</p> $8 : 24 = 1 : 3$	<p>Julia buys a car for £7500 and pays a deposit of £1875. She pays the rest in 36 equal monthly payments. Work out the amount of each monthly payment</p> $7500 - 1875 = 5625$ $5625 \div 36 = 156.25$	<p>4</p>
<p>Write 504 as a product of powers of its prime factors.</p> $2^3 \times 3^2 \times 7$	<p>Work out</p> $3 \times -7 = -21$ $3 + (2 \times 7) = 17$	<p>REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"!</p>				<p>5</p>