MON	TUE	WED	THU	FRI	WEEKEND
17/4 Calculate $\sqrt[5]{19}$ to 1 dp	18/4 £1 = $1.63 How many pounds would you get for $130?	19/4 What is the volume of a cuboid with side lengths 5.3cm, 9.7cm and 12.2cm?	20/4 Olivia has a wage rise of 2.5% Her salary is now £34,850 , what was it before?	21/4 Calculate the perimeter (to 1dp) of a semi-circle if r = 7cm	The cost of hiring a car is given by, Cost (£) = No. of days x 14.50 + 27.75 Rob has £125, for how many days can he hire the car?
24/4 Alex and Beth share money in the ratio 3:5, Alex receives £37 less than Beth. How much was originally shared?	25/4 Calculate the area (to 1dp) of a semi-circle if d = 10cm	26/4 The mean no. of goals scored in 12 games is 3.75, after 20 games the mean is 3.85. What is the mean of the last 8?	27/4 How many sides does a polygon have with exterior angles of 12°?	28/4 Calculate to 2dp $\frac{23.54 \times 2.3^4}{19.2 - 11.32}$	Find the length (to 1 dp) of the hypotenuse of a right-angled triangle with side lengths 8.2cm and 5.6cm.
01/5 Calculate the height of a trapezium given the base is 8.2cm, the opposite parallel side is 12.6cm, and the area 156cm^2	02/5 A 450g tub of yogurt contains 13g of sugar. How much sugar is in a 80g tub?	03/5 Calculate $\sqrt[3]{(3.92 - 1.2^2)}$ to 3sf	04/5 P is directly proportional to the square of Q. If P = 12 when Q = 6. Calculate P when Q is 27	05/5 What is 12 km/h in miles per hour?	David puts £300 into a savings account paying 3.2% compound interest per annum. How much is in his account after 4 years?
08/5 What is the side length of a cube with a volume of 118mm^3?	09/5 Calculate the area of an equilateral triangle with side length 7m	10/5 A triangle ΔABC has sides AB 1.3m, BC 1.6m, and angle ∠BAC 42° Find the angle ∠ACB	11/5 Solve the equation $2x^2 + 3x - 7 = 2$	12/5 Previous reading 1243 units Present reading 1319 units Cost of a unit is 51.3p What will this months Gas bill be?	Find the perimeter of a right-angled triangle ΔABC with hypotenuse AB 10.2cm, and angle ∠BAC 50°
15/5 $f(x) = x^2 - \sqrt[3]{x}$ Calculate f(4.2) to 2dp	16/5 What is the volume of a cone with height 12cm and radius 3cm?	17/5 Solve $\frac{x}{8} + 15 = 2.5$	18/5 What is the diameter of a circle (to 3sf) with area of 12cm^2?	19/5 A triangle ΔPQR with sides PQ 11cm, QR 6cm, and included angle 35° Find the length of PR.	Sarah drove from home to Edinburgh , taking 4 hours at an average speed of 87.5km/h. On her return journey (along the same roads) she reduced her time by 15 min. Calculate her average speed home.
22/5 What is the volume of a cylinder with height 6m & diameter 3m?	23/5 Calculate $\sqrt[4]{(2.6 + \tan 64^\circ)}$ to 3sf	24/5 What is the surface area of a cuboid with side lengths of 5.1cm, 4.3cm and 7.2cm?	25/5 Numeracy Unit 1	26/5 What is the length of the shortest arc created between the hands of a clock, of radius 12cm, at 5pm?	A bag contains blue, red, and green marbles . P(red)=0.15, and P(blue)=0.45. A marble is picked and replaced twice, what is the probability they are the same colour?
29/5 What is the mass of the cylinder in the question above, if its density is 1.8kg/m^3?	30/5 A dress is reduced in a sale by 25%, then the price is increased by 10%. If the final price is £64.35, what was the original?	31/5 What is the area of the sector created in the 19/5 question?	01/6 What is the value of the 15th term in the sequence given by $3n^2 - 2n + 5$?	02/6 A is directly proportional to the square root of B. If A = 10 when B = 1600. Calculate B when A is 8.	What is the length of the diagonal of a cuboid with side lengths 5.3cm, 9.7cm and 12.2cm?
05/6 A triangle ΔPQR with sides PQ 8cm, QR 6cm, and PR 3cm. Find the angle ∠PRQ (to 3sf)	06/6 A triangle has area 14m^2, sides of length 8m and 5m What is the size of the included angle to 1dp?	07/6 The equation $x^2 + 2x = 20$ has a solution between 3 and 4. Use trial and improvement to find the solution to 1 dp.	08/6 Numeracy Unit 2	09/6 $f(x) = x^2 - 2x$ $g(x) = \sqrt[3]{x}$ Calculate gf(-5)	Harry puts £12,000 in an account with 2.4% interest p.a. How many years before he has over £13,500?
12/6 y is inversely proportional to the cube of x. Given that x=2 when y=4, find the value of y (to 3sf) when x=6	13/6 Maths Unit 1	14/6 A circular lawn with a border of 22m is to be re-turfed at a cost of £2.35 per m^2. How much will it cost?	15/6 What is the surface area of a sphere of radius 1.2m	16/6 100g of liquid A of density 1.2g/cm^3 and 120g of liquid B of density 1.8g/cm^3 are mixed. What is the density of this liquid?	The volume of a square based pyramid, J, is 25% smaller than the volume of another, K. If K has height 45m and base length 40m, what is the volume of J?
19/6 What is the surface area of a hemisphere of diameter 2.8m	20/6 Maths Unit 2	**PREPARE FOR THE CALCULATOR PAPERS, ONE DAY AT A TIME...**			Make sure you use your calculator for each question!

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17/4 1.8 (to 1 dp)	18/4 £79.75	19/4 $627.202cm^3$	20/4 £34,000	21/4 36.0cm	6 days
24/4 £148	25/4 $39.3cm^2$	26/4 4	27/4 30	28/4 83.60	9.9cm
01/5 15cm	02/5 2.31g (to 2dp)	03/5 1.35	04/5 243	05/5 7.5mph	£340.28
08/5 4.9mm (to 1dp)	09/5 $21.2cm^2$ (to 1dp)	10/5 32.9^o (to 1dp)	11/5 x= -3 or 1.5	12/5 £38.99	24.6cm (to 1dp)
15/5 16.03	16/5 $113.1cm^3$	17/5 -100	18/5 3.91cm	19/5 6.99cm (to 2dp)	93.3km/h (to 1dp)
22/5 $42.4cm^3$ (1dp)	23/5 1.47	24/5 $179.22cm^2$	25/5 Numeracy Unit 1	26/5 31.4cm (to 1dp)	0.385
29/5 76.4kg (1dp)	30/5 £78	31/5 $188.5cm^2$ (to 1dp)	01/6 650	02/6 1024	16.5cm (to 1dp)
05/6 122^o	06/6 44.4^o	07/6 x = 3.6	08/6 Numeracy Unit 2	09/6 3.27 (to 2dp)	5 years
12/6 0.148	13/6 Maths Unit 1	14/6 £90.51	15/6 $18.1m^2$ (to 1dp)	16/6 $1.47g/cm^3$	$18000m^3$
19/6 $18.5m^2$ (1dp)	20/6 Maths Unit 2	ANSWERS....			