MON	TUE	WED	THU	FRI	WEEKEND
^{10/4} Calculate ⁵ √19 to 1 dp	11/4 £1 = \$1.63 How many pounds would you get for \$130?	12/4 What is the volume of a cuboid with side lengths 5.3cm, 9.7cm and 12.2cm?	13/4 Olivia has a wage rise of 2.5% Her salary is now £34,850, what was it before?	14/4 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?
17/4 Alex and Beth share money in the ratio 3:5, Alex receives £37 less than Beth. How much was originally shared?	18/4 Calculate the area (to 1dp) of a semi-circle if d = 10cm	19/4 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?	20/4 How many sides does a polygon have with exterior angles of 12°?	$ \begin{array}{r} 21/4 \\ Calculate to 2dp \\ \underline{23.54 \times 2.3^4} \\ 19.2 - 11.32 \end{array} $	Find the length (to 1 dp) of the hypotenuse of a right-angled triangle with side lengths 8.2cm and 5.6cm.
24/4 Calculate the height of a trapezium given the base is 8.2cm, the opposite parallel side is 12.6cm, and the area 156cm ²	25/4 Calculate the area of an equilateral triangle with side length 7m	26/4 Calculate ∛(3.92 – 1.2 ²) to 3sf	27/4 P is directly proportional to the square of Q. If P = 12 when Q = 6. Calculate P when Q is 27	28/4 If 5 miles = 8km 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?
01/5 What is the side length of a cube with a volume of 118mm ³ ?	02/5 A 450g tub of yogurt contains 13g of sugar. How much sugar is in a 80g tub?	03/5 A triangle ΔABC with sides AB 1.3m, BC 1.6m, and angle ∠BAC 42° Find the angle ∠ACB	$ \begin{array}{r} 04/5 \\ Solve the equation \\ 2x^2 + 3x - 7 = 2 \end{array} $	05/5 Calculate a_4 if $a_0 = 2$ and $a_{n+1} = 1.4a_n + 1.3$	Find the perimeter of a right-angled triangle ΔABC with hypotenuse AB 10.2cm, and angle ∠BAC 50°
08/5 f(x) = x ² - $\sqrt[3]{x}$ Calculate f(4.2) to 2dp	09/5 What is the volume of a cone with height 12cm and radius 3cm?	10/5 What is the diameter of a circle (to 3sf) with area of 12cm ² ?	11/5 A bookshelf exerts a force of 150 Newtons on the floor. The pressure on the floor is 120N/m ² . What is the area in contact with the floor?	12/5 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.
15/5 What is the volume of a cylinder with height 6m & diameter 3m?	$ \begin{array}{c} 16/5 \\ 4\sqrt{(2.6 + \tan 64^\circ)} \\ to 3sf \end{array} $	17/5 What is the surface area of a cuboid with side lengths of 5.1cm, 4.3cm and 7.2cm?	18/5 What is the value of the 15 th term in the sequence given by 3n ² -2n + 5 ?	19/5 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?
22/5 What is the mass of the cylinder in the question above, if its density is 1.8kg/m ³ ?	23/5 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?	24/5 What is the area of the sector created in the 19/5 question?	Paper 1 Non- Calc	26/5 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?
29/5 A triangle ΔPQR with sides PQ 8cm, QR 6cm, and PR 3cm. Find the angle ∠PRQ (to 3sf)	30/5 Find the positive y coordinate when x=7 on a circle of radius 12, centred on the origin. Give your answer to 3sf.	31/5 If $x_0 = 1.8$ and $x_{n+1} = 1.4x_n^2 - 0.2x_n$ Calculate x_2 and x_3	01/6 What is the surface area of a sphere of radius 1.2m	02/6 $f(x) = x^2 - 2x$ $g(x) = \sqrt[3]{x}$ 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?
05/6 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	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 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?	^{08/6} Paper 2 Calculator	09/6 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?
12/6 What is the surface area of a hemisphere of diameter 2.8m	Paper 3 Calculator	PREPARE FOI	R THE CALCUL E DAY AT A TI	ATOR PAPERS, ME	Make sure you use your calculator for each question!

MON	TUE	WED	THUR	FRI	WEEKEND
10/4 1.8 (to 1 dp)	£79.75	^{12/4} 627.202cm ³	13/4 £34,000	14/4 36.0cm	6 days
17/4 £148	^{18/4} 39.3cm ²	<u>19/4</u>	30	83.60	9.9cm
^{24/4} 15cm	25/4 21.2cm ² (to 1dp)	1.35	27/4 243	^{28/4} 7.5mph	£340.28
01/5 4.9mm (to 1dp)	02/5 2.31g (to 2dp)	03/5 32.9° (to 1dp)	04/5 x= -3 or 1.5	05/5 16.9 (to 1dp)	24.6cm (to 1dp)
16.03	^{09/5} 113.1cm ³	10/5 3.91cm	11/5 1.25m ²	12/5 6.99cm (to 2dp)	93.3km/h (to 1dp)
15/5 42.4cm ³ (1dp)	16/5	17/5 179.22cm ²	^{18/5} 650	19/5 31.4cm (to 1dp)	0.385
22/5 76.4kg (1dp)	23/5 £78	24/5 188.5cm ² (to 1dp)	Paper 1 Non- Calc	1024	16.5cm (to 1dp)
^{29/5} 122°	^{30/5} 9.75	$x_2 = 23.6$ $x_3 = 773.7$ (to 1dp)	01/6 18.1m ² (to 1dp)	02/6 3.27 (to 2dp)	5 years
05/6	06/6 44.4°	^{07/6} £90.51	^{08/6} Paper 2 Calculator	^{09/6} 1.47g/cm ³	18000m ³
12/6 18.5m ² (1dp)	Paper 3 Calculator		ANSW	ERS	