BEVISION GHALLENGE (H)

how rany can you do? ... how rany will you do?

There are 5 grams of fibre in	What is $1\frac{3}{20}$ written as a PERCENTAGE ?	Mel invests 18 000 rupees	<u>z</u> 4	Simplify $(27a^{12})^{\frac{2}{3}}$	Prove algebraically that the difference between the squares of any two consecutive	A solid metal cube has sides of length 125 mm, correct to 3 sig
every 100 grams of bread. A loaf of bread has a weight of 400 g. There are 100 slices of bread in	What is 22.5% of 80?	per year compound interest. Work out the total amount of interest Mel has received by	area of the	Show that $0.3\dot{2}\dot{4}=\frac{107}{330}$	odd numbers is always a multiple of 8	figs. The cube is melted down and the metal used to make solid spheres.
a loaf. Each slice of bread has the same weight. Work out the weight of fibre	Find the PRESSURE exerted by a force of 810 newtons on an		ut the o	Simplify: x ² ÷ x ⁻⁵	Calculate: $1\frac{2}{9} - \frac{4}{5}$	The volume of each sphere is to be $140 \mathrm{cm}^3$, correct to the nearest $10 \mathrm{cm}^3$. What is the greatest number of
in ONE SLICE of bread.	area of 120 cm ² Give your answer in newtons/m ²	Calculate (-) ³	Work o	towns. is 105° is 230° is 780 km. is 95 km. B from A. 3 significant	A cone has a volume of 562.5π cm 3	spheres that could be made from the metal.
What is "three eighths" written as a DECIMAL?	Calculate	jon plays 7 games of basketball. His mean score per game for these 7 games is 42 points jon is going to play one more game. He wants his mean score	An amount of money was invested at	A, B and C are three towns. The bearing of B from A is 105° The bearing of C from B is 230° The distance of C from B is 180 km The distance of C from B is 95 km. Calculate the distance of B from A. E your answer correct to 3 signification.	The radius of the base of the cone is equal to twice the height of the cone. Work out the curved surface area of the cone.	Share £60 in the ratio $1:2:3$
	l.5 x 45		3% per annum compound interest. At the end of 2 years the value of			
Friends A, B and C share some sweets in the ratio 1:3:4. C has 7 more sweets than B. How many sweets altogether?	I share some money in the ratio 4:5:1 The largest		the investment was £2652,25. . Work out the amount of money invested			What PERCENTAGE of the shape is shaded?
Solve: ¶x + 3y = 20	amount is £44 more than the smallest amount. How much was shared?	per game for the 8 games to be exactly 50 points. HOW MANY POINTS must he	is 8 cm less than the length		Simplify: 3e ⁷ f x 4e ² f	
3× + 5y = 3	The points $(1,-1)$ and $(4,7)$ lie on the	score in his 8 th game?	of the rectangle. The perimeter of the rectangle is 54 cm.	What is 0.02 x 0.4 ?	x is rounded to 50 which is sig. figs. What is the ERROR INVERVAL?	
List the PRIME numbers between 20 and 30	straight line L. Find an equation for L.	Increase £420 by 1.5%	Find the area of the rectangle.	Solve : $\frac{6x-1}{2} = x+1$	Without a calculator 547.3 x 0.07	19cm
The nth term of a sequence is given by 80 - 2n	$x^2 + 2x > 6x + 5$	Factorise fully 6y² + 15y	A bank pays 2.25% simple interest. £8000 is invested, how much will be in the account after 2 years?	A PENDULUM OF LENGTH L CM HAS TIME PERIOD T SECONDS. T IS DIRECTLY PROPORTIONAL TO THE	Solve: 2q > 31 - 3q	16cm D
Write down the first 3 terms of this sequence.	The ratio of penspencils is 2 : 1 The ratio of pensrulers is 3 : 1 What is the ratio of pencils : rulers?	What is the LOWEST COMMON MULTIPLE of 8 and 8??	The 3rd term of an arithmetic series, A, is	SQUARE ROOT OF L. THE LENGTH OF THE PENDULUM IS INCREASED BY 40%.	January 1	
Find the Highest Common Factor of 140 and 245	Expand and simplify $(2x - 7y)(x + 7)$	What is the side length AREA of a square an area of 6.25cm ² ?	19. The sum of the first 10 terms of A is 290 Find the 10th term of A.	WORK OUT THE PERCENTAGE INCREASE IN THE TIME PERIOD.	1	
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