ONE-WEEK HOLIDAY GUALLENGE GROSSOVER D

HOW MANY CAN YOU DO? ... HOW MANY WILLYOU DO?

DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7
Write 80 in index form?	Point A has coordinates (3,8) Point B has coordinates (7,5) Find the midpoint of the line AB	A shop has a 20% off sale. A bag is reduced by £24. What was the original price?	Calculate the length of "x"	What is my speed if I walk 18 miles in 5 hours?	factorise fully 5x ² y - 20xy ⁴	There are between 35 and 40 students in a class.
Calculate 4.2 x 10 ⁴ + 3.1 x 10 ³	30 students were asked if they passed English or Maths tests: 20 students passed both tests 2 students didn't pass either	Two fifths of a number is 32. What is the number?	x \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	What is the median and interquartile range for the following numbers:	oes the median class interval? an estimate for Frequency 8 8 11 9 9	The ratio of boys to girls is 4:5 How many students are in the class?
What is the gradient and intercept of the line y = 4x -2	25 students passed their Maths test Draw a Venn diagram to show this information	There are 12 boys and 18 girls in a class who took a test. The mean mark for all the class is 62	Simplify: $3m^2 + 4m^2$	5 9 11 14 15 20 22 25 27 27 28 30 32 35 44	e a ë, d	Evaluate: 27 ⁰
make "p" the subject 4P - 3 = 13T	kg/m³.	The mean mark for the girls is 58 Work out the mean mark for the boys.	Christian's alarm and Fize's alarm both beep at 7:50 am. Then Christian's alarm beeps every 6 minutes and Fize's alarm	Factorise: 20pq + 15pq ² - 45pq ³	In what interval lis What is the moc Can vou calculat Time 0 <15.00	240 people visit a cinema One third of them are over 65. 15% are under 16.
An arena have 1673 rows of seats. Each row has 22 seats.	Work out the mass of 5 m ³ of this metal.	Calculate (4.1 x 10 ³) x (2 x 10 ³)	beeps every 4 minutes. After how many minutes will both alarms beep together?	Ali and Bob share £360 in the ratio 1:5 Bob then gives Ali some money so that they each have the same	Solve $4(2x-2)-2(2x-5)=14$	How many people are between 16 and 65?
Estimate the total number of seats in the arena.	Melissa and Matt share some money in the ratio 3:4. If	Solve $\frac{x}{5} > 2.5$	Round 124.7735 to 2 significant figures	amount. How much money did Bob gives toAli?	Simplify $3a^2h \times 4a^5h^4$	Expand and simplify (2x - 2)(x - 4)
Factorise and solve $x^2 + 7x + 6 = 0$	Melissa received £45 work out how much they shared?	A 2 kg box of "something" costs $£1.89$ A 5 kg box of "something" costs $£4.30$	Write down the integer values of x that satisfy the inequality $-2 \le x < 3$	Round 405.195865 to 4 significant figures	Without a calculator: 12.7 x 43.2	Factorise: 15x + 25y + 35z
A number is rounded to 0.4 which is 1 decimal place. What is the error interval?	Write 1111 x 10 ⁻⁵ in standard form	A 9 kg box of "something" costs £8.40 Which size of box is the best value for money?	Simplify: $\frac{24a^3b^2}{8a^5b}$	A belt costs £19.50 plus 20% VAT. Calculate the total cost of the belt.	One quarter of the beads in a bag are white. The rest are blue. What is the ratio of: White beads: Blue beads?	Calculate the mean number of goals:
A class of 30 students study either Art or Music. There are 13 girls in the class, with 8 girls and 9 boys studying music. How many boys study Art?	Solve $3x^2 = 48$	Show that: $7\frac{1}{2} - 4\frac{2}{3} = 2\frac{5}{6}$	A shop has a 15% off sale. A tent is reduced TO £187. What was the original price?	The exchange rate is \$1.64 = £1 The smallest number of notes that exchange bureau has are \$20	x is rounded to 10.6 which is 1 decimal place. What is the error interval?	Goals Frequency 0 8 1 15 2 12
	Connor invests £10,000 at a rate of 5% per year compound interest. How much is it worth after 3 years?	Find the value of x $(x^y)^3 = x^6$	There are 15 red beads and 24 blue beads in a bag. Write the ratio of blue beads: red beads in its simplest form.	I want to change £900 into dollars. How many dollars can I get and how much will this cost me?	Expand and simplify (a – 2)(a – 5)	3 7 4 3 5 1

I have tried to ensure the answers are correct BUT ... you know how it is (and I'm ALWAYS in a rush!)!! If you find any mistakes email me: mel@justmaths.co.uk

AUSMEBS

DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7
2⁴x 5	(5, 6.5)	£120	13.27 cm (to 2 decimal places)	3.6 mph	5xy (x - 4y³)	- 36
4.51x10 ⁴	E 3 20 5	80		median = 25, IQR = 30-14 = 16	20 <t≤30 20<t≤30 28.25</t≤30 </t≤30 	
gradient = 4, intercept = -2		- 68	7m²			1
$P = \frac{13T + 3}{4}$	35650 grams		- 12 minutes	5pq(4 + 3q - 9q ²)		124
A range is acceptable - I'd do 1700 x 20 = 34000		8.2x10 ⁶		£120	x = 3	
	£105	x > 12.5	120		12a ⁷ h ⁵	2x ² - 10x + 8
x = -1 and x = -6		5kg box and values 94.5p, 93.3333 p and 86p	-2, -1, 0, 1, 2	405.2	548.64	5(3x + 5y + 7z)
0.35 ≤ x < 0.45	1.111 x 10 ⁻²		$3a^{-2}b$	£23.40	1:3	
8	x = - 4, x = 4	Correct workings shown $y = 2$	£220	\$1476 dollars but can only have \$1460 which will cost £890.24	10.55 ≤ x < 10.65	1.67
	£11,576.25		8:5		a ² – 7a + 10	