PROGRESSIVE OVERLOAD NUMBER TWO

ACCESS MATHS

OPERATIONS	Work out: $20 - 5 \times 3$	Work out: $12 + 9 \div 3$	Work out: $(4 + 5) \times 2 + 3$	Work out: $3 + 5 \times 2 - 1$	Work out: $6 + 2 \times (5 - 1)$	Add brackets to correct: $9 + 2 \times 6 - 3 = 18$	Add brackets to correct: $9 + 2 \times 6 - 3 = 15$	Add brackets to correct: $2 + 3 \times 4 + 5 = 29$	Add brackets to correct: $2 + 3 \times 4 + 5 = 45$
MULTIPLES	The first 5 multiples of: 8	The first 5 multiples of: 12	The LCM of: 12 and 8	The LCM of: 20 and 15	The LCM of: 14 and 5	The LCM of: 21 and 9	The LCM of: 20 and 14	The LCM of: 40 and 56	The LCM of: 50 and 14
FACTORS	Factors of: 30	Factors of: 48	The HCF of: 24 and 18	The HCF of: 36 and 48	The HCF of: 39 and 130	The HCF of: 30 and 75	The HCF of: $2^3 \times 3^3 \times 5^2$ and $2 \times 3 \times 5^3$	The HCF of: $2^3 \times 3 \times 5$ and $2^2 \times 3 \times 5^2$	The HCF of: $2^2 \times 3^2 \times 5$ and $2 \times 3^3 \times 5$
PRIMES	Write as a product of prime factors: 20	Write as a product of prime factors: 50	Write as a product of prime factors: 80	Write as a product of prime factors: 120	Write as a product of prime factors: 150	Write as a product of prime factors: 240	Write as a product of prime factors: 360	Write as a product of prime factors: 128	Write as a product of prime factors: 136
BOUNDS	Write down the upper bound: 3.2 rounded to 1dp	Write down the lower bound: 4.3 rounded to 1dp	Write down the lower bound: 2.34 rounded to 2dp	Write down the upper bound: 435 rounded to 3sf	Write down the lower bound: 2100 rounded to 2sf	Write down the error interval: 2.7 rounded to 1dp	Write down the error interval: 24 rounded to 2sf	Write down the error interval: 1340 rounded to 3sf	Write down the error interval: 1.328 rounded to 3dp
INTEREST	How much will £3000 be worth after 3 years simple interest at 2% per annum.	How much will £2000 be worth after 4 years simple interest at 2.5% p.a.	How much will £4000 be worth after 3 years compound interest at 3% p.a.	How much will £5000 be worth after 4 years compound interest at 2% p.a.	How much will £600 be worth after 3 years compound interest at 2.4% p.a	How much will £500 be worth after 4 years compound interest at 1.6% p.a.	How much will £50 be worth after 9 years compound interest at 2.1% p.a.	How much will £900 be worth after 14 years compound interest at 3.1% p.a.	How much will £5000 be worth after 25 years compound interest at 0.9% p.a.
DEPRECIATE	How much will a car be worth £4000 be worth after 3 years with a depreciation rate of 10%	How much will a car be worth £8000 be worth after 3 years with a depreciation rate of 20%	How much will a car be worth £6000 be worth after 3 years with a depreciation rate of 15%	How much will a car be worth £4000 be worth after 5 years with a depreciation rate of 15%	How much will a car be worth £5000 be worth after 3 years with a depreciation rate of 9%	How much will a car be worth £9000 be worth after 2 years with a depreciation rate of 35%	How much will a car be worth £12,000 be worth after 2 years with a depreciation rate of 7%	How much will a car be worth £14,000 be worth after 5 years with a depreciation rate of 13%	How much will a car be worth £24,000 be worth after 10 years with a depreciation rate of 11%
INEQUALITY	Write down all the possible integer values of n $1 \leq n < 5$	Write down all the possible integer values of n $-1 \leq n < 4$	Write down all the possible integer values of n $-3 < n \leq 2$	Write down all the possible integer values of n $-5 \leq n < 1$	Write down all the possible integer values of n $-6 < n < -1$	Write down all the possible integer values of n $-4 < n \leq 4$	Write down all the possible integer values of n $-3 \leq n < 2$	Write down all the possible integer values of n $-5 < n \leq 2$	Write down all the possible integer values of n $-9 \leq n < -3$
WRITE	In standard form: 340,000	As an ordinary number: 2.4×10^3	In standard form: 40,450	As an ordinary number: 7.3×10^5	In standard form: 0.00045	As an ordinary number: 6.4×10^{-5}	In standard form: 0.003007	As an ordinary number: 3.007×10^{-3}	In standard form: 0.008006
WORK OUT	Work out: $(2.4 \times 10^3) + (2.3 \times 10^2)$ Answer in standard form.	Work out: $(4.5 \times 10^4) + (1.3 \times 10^3)$ Answer in standard form.	Work out: $(3.4 \times 10^5) - (1.2 \times 10^4)$ Answer in standard form.	Work out: $(5 \times 10^5) \times (3 \times 10^4)$ Answer in standard form.	Work out: $(3.2 \times 10^3) \times (4 \times 10^5)$ Answer in standard form.	Work out: $(8 \times 10^5) \div (4 \times 10^2)$ Answer in standard form.	Work out: $(3.6 \times 10^4) \div (9 \times 10^2)$ Answer in standard form.	Work out: $(3.2 \times 10^4) \times (5 \times 10^{-2})$ Answer in standard form.	Work out: $(4.8 \times 10^5) \div (1.2 \times 10^{-3})$ Answer in standard form.