

Ratio

Q: A _____ compares the size of two or more values	A: Ratio
Q: What ratio is represented by this bar model 	A: 3 : 5
Q: The ratio 4 : 5 cannot simplify to 2 : 2.5, why?	A: Because both values are not integers
Q: The ratio of blue to red is given as 3 : 2 then the ratio of red to blue is ...	A: 2 : 3
Q: Something written in the form 1 : n or n : 1 is an example of a ...	A: Unit Ratio
Q: What is the sum of the parts in the ratio 2 : 3 : 4	A: 9
Q: Simplify the ratio 12 : 8	A: 3 : 2
Q: There are blue to red pens in a bag in the ratio 3 : 2 what fraction of the pens are red?	A: $\frac{2}{5}$
Q: There are blue to red pens in a bag in the ratio 3 : 2. If there are 18 blue pens, how many are red?	A: 12

Algebraic Manipulation

Q: Like terms have the same _____ and _____.	A: Variable, Indices
Q: Out of the following terms below which are like terms: $3x$ $4xy$ $5x^2$ $5x$ $3y$	A: $3x$ and $5x$
Q: Out of the following below which is an expression: $3x + 15 = 18$ $3x + 15$ $3(x + 5) \equiv 3x + 15$ $A = b \times h$	A: $3x + 15$
Q: In the expression $5x + 3y$ what is the coefficient of x ?	A: 5
Q: What is the mathematical term for multiply each term inside the bracket by the expression outside the bracket.	A: expand
Q: Expand $3(2x - 5)$	A: $6x - 15$
Q: What is the mathematical term for express an algebraic expression as a product of its factors using brackets	A: factorise
Q: Factorise fully $8x - 12$	A: $4(2x - 3)$

Rounding and Estimation

Q: How many decimal places does the number 32.456 have?	A: 3
Q: What digit is the first significant figure in 562?	A: 5
Q: What digit is the first significant figure in 0.0124	A: 1
Q: What digit is the second significant figure in 2054	A: 60
Q: What is the value of the first significant figure in 324	A: Three hundred or 300
Q: What is the value of the first significant figure in 0.0241	A: Two hundredths or $\frac{2}{100}$
Q: How do you estimate a number?	A: Round to the first significant figure.
Q: What is the estimate of 198×3 ?	A: $200 \times 3 = 600$
Q: What is the estimate of 49×3.2 ?	A: $50 \times 3 = 150$
Q: What is the estimate of 0.65×109 ?	A: $0.7 \times 100 = 70$