Ratio, proportion and rates of change

AQA · GCSE · Mathematics · Vocabulary in context

Word	Example
part-to-whole ratio /pɑːt tə həʊl ˈreɪʃɪəʊ/	A **part-to-whole ratio** compares one group with the total.
best buy	Compare the price per gram to find the **best buy**.
multiplier /ˌmʌltɪˈplaɪə/	Multiply by the **multiplier** 1.2 to add 20%. 20% 1.2
direct proportion /daɪˈrekt prəˈpɔːʃn/	If y is in **direct proportion** to x, doubling x also doubles y. y x x y
constant of proportionality /ˈkɒnstənt ɒv prəˌpɔːʃəˈnælɪti/	The **constant of proportionality** links two directly proportional quantities.
inverse proportion /ɪnˈvɜːs prəˈpɔːʃn/	If y is in **inverse proportion** to x, doubling x halves y. y x x y
density /ˈdensɪti/	Iron has a higher **density** than wood, so it sinks in water.
pressure /ˈpreʃə/	A sharp knife puts a large **pressure** on the bread.
scale /skeɪl/	The map's **scale** is 1 : 50 000. 1 : 50 000
area scale factor /ˈeərɪə skeɪl ˈfæktə/	The determinant of a matrix gives the **area scale factor**.
rate of change /reɪt ɒv tʃeɪndʒ/	The **rate of change** is 5 metres per second. 5 metres per second
tangent gradient /ˈtændʒənt ˈgreɪdɪənt/	The **tangent gradient** gives a curve's rate at one point.

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compound interest /ˈkɒmpaʊnd ˈɪntrest/	**Compound interest** is paid on the interest too.
iterative process /ˈɪtərətɪv ˈprəʊses/	An **iterative process** repeats a calculation with each new result.