International Baccalaureate · IB Diploma · Mathematics: Applications and Interpretation · SL

Glossary · every term in the course, A–Z

English

alternative hypothesis
/ɔːlˈtɜːnətɪv haɪˈpɒθəsɪs/
amortised

amplitude
/ˈæmplɪtjuːd/
angle of depression
/ˈæŋgl ɒv dɪˈpreʃn/
angle of elevation
/ˈæŋgl ɒv ˌelɪˈveɪʃn/
annuity
/əˈnjuːɪti/
arc
/ɑːk/
arithmetic sequence
/əˈrɪθmətɪk ˈsiːkwəns/
assumption
/əˈsʌmpʃn/
asymptote
/ˈæsɪmptəʊt/
axis of symmetry
/ˈæksɪs ɒv ˈsɪmətri/
bearing
/ˈbeərɪŋ/
box plot
/bɒks plɒt/
cell
/sel/
chi-squared test
/kaɪ skweəd test/
common difference
/ˈkɒmən ˈdɪfrəns/
common ratio
/ˈkɒmən ˈreɪʃiəʊ/

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English

compound interest
/ˈkɒmpaʊnd ˈɪntrest/
conditional probability
/kənˈdɪʃənl ˌprɒbəˈbɪlɪti/
cone
/kəʊn/
constant of integration
/ˈkɒnstənt ɒv ˌɪntɪˈgreɪʃn/
contingency table
/kənˈtɪndʒənsi ˈteɪbl/
continuous data

cosine rule
/ˈkəʊsaɪn ruːl/
critical value
/ˈkrɪtɪkl ˈvæljuː/
cumulative frequency
/ˈkjuːmjʊlətɪv ˈfriːkwənsi/
decreasing
/ˈdiːkriːsɪŋ/
definite integral
/ˈdefɪnət ˈɪntɪgrəl/
degrees of freedom
/dɪˈgriːz ɒv ˈfriːdəm/
deposit
/dɪˈpɒzɪt/
depreciation
/dɪˌpriːʃɪˈeɪʃn/
derivative
/dɪˈrɪvətɪv/
directly proportional
/daɪˈrektli prəˈpɔːʃənl/
discrete data

discrete random variable
/dɪˈskriːt ˈrændəm ˈveərɪəbl/
domain
/dəˈmeɪn/
edge
/edʒ/

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English

expected value
/ekˈspektɪd ˈvælju:/
exponential model
/ˌekspəˈnenʃl ˈmɒdl/
extrapolation
/ekˈstræpəleɪʃn/
frequency density
/ˈfri:kwənsi ˈdensɪti/
function
/ˈfʌŋkʃn/
geometric sequence
/ˌdʒi:əʊˈmetrɪk ˈsi:kwəns/
goodness of fit test

gradient
/ˈgreɪdɪənt/
half-life
/hɑ:f laɪf/
hemisphere
/ˈhemɪsfɪə/
hypotenuse
/haɪˈpɒtənju:s/
increasing
/ɪnˈkri:sɪŋ/
independent
/ˌɪndɪˈpendənt/
inflation
/ɪnˈfleɪʃn/
integration
/ˌɪntɪˈgreɪʃn/
internal assessment

interpolation
/ɪnˌtɜ:pəˈleɪʃn/
interquartile range
/ˌɪntəˈkwɔ:taɪl reɪndʒ/
inverse function
/ɪnˈvɜ:s ˈfʌŋkʃn/
inversely proportional
/ɪnˈvɜ:sli prəˈpɔ:ʃənl/

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English

iteration
/ˌɪtəˈreɪʃn/
linear model
/ˈlɪnɪə ˈmɒdl/
local maximum
/ˈləʊkl ˈmæksɪməm/
local minimum
/ˈləʊkl ˈmɪnɪməm/
logarithm
/ˈlɒgərɪθəm/
lower bound
/ˈləʊə baʊnd/
mathematical communication
mathematical exploration
mean
/miːn/
median
/ˈmiːdiːən/
midpoint
/ˈmɪdpɔɪnt/
mode
/məʊd/
model
/ˈmɒdl/
moderation
multiplier
/ˌmʌltɪˈplaɪə/
mutually exclusive
/ˈmjuːtʃuːəli eksˈkluːsɪv/
natural logarithm
/ˈnætʃərəl ˈlɒgərɪθəm/
nearest neighbour interpolation
normal
/ˈnɔːml/
normal distribution
/ˈnɔːml ˌdɪstrɪˈbjuːʃn/

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English

null hypothesis
/nʌl haɪˈpɒθəsɪs/
one-tailed
/wʌn teɪld/
outlier
/ˈaʊtlaɪə/
parallel
/ˈpærəlel/
period
/ˈpɪərɪəd/
perpendicular
/ˌpɜːpənˈdɪkjʊlə/
perpendicular bisector
/ˌpɜːpənˈdɪkjʊlə baɪˈsektə/
personal engagement

population
/ˌpɒpjʊˈleɪʃn/
presentation
/ˌprezənˈteɪʃn/
primary data
/ˈpraɪməri ˈdeɪtə/
prime factor
/praɪm ˈfæktə/
principal axis
/ˈprɪnsɪpl ˈæksɪs/
probability
/ˌprɒbəˈbɪlɪti/
pyramid
/ˈpɪrəmɪd/
quadratic model
/kwɒˈdrætɪk ˈmɒdl/
quartile
/ˈkwɔːtaɪl/
range
/reɪndʒ/
reflection
/rɪˈflekʃn/
regression line
/rɪˈgreʃn laɪn/

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English

research question
/rɪˈsɜːtʃ ˈkwestʃn/
residual
/rɪˈsɪdʒuːəl/
sample
/ˈsæmpl/
sample space
/ˈsæmpl speɪs/
scale factor
/skeɪl ˈfæktə/
scatter diagram
/ˈskætə ˈdaɪəgræm/
secant
/ˈsiːkənt/
secondary data

sector
/ˈsektə/
sequence
/ˈsiːkwəns/
series
/ˈsɪəriːz/
significance level
/sɪgˈnɪfɪkəns ˈlevl/
significant figure
/sɪgˈnɪfɪkənt ˈfɪgə/
sine rule
/saɪn ruːl/
sinusoidal model
/ˌsaɪnəˈsɔɪdl ˈmɒdl/
site
/saɪt/
slant height
/slænt haɪt/
space diagonal
/speɪs daɪˈægənl/
Spearman's rank
correlation coefficient
/ˈspɪəmənz ræŋk ˌkɒrɪˈleɪʃn ˌkəʊɪˈfɪʃənt/
sphere
/sfɪə/

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English

standard deviation
/ˈstændəd ˌdiːvɪˈeɪʃn/
standard form
/ˈstændəd fɔːm/
stationary point
/ˈsteɪʃənəri pɔɪnt/
tangent
/ˈtændʒənt/
tree diagram
/triː ˈdaɪəgræm/
two-tailed
/tuː teɪld/
upper bound
/ˈʌpə baʊnd/
use of mathematics

vertex
/ˈvɜːteks/
Voronoi diagram

zero
/ˈzɪərəʊ/

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