

AREAS cm² or m²



RECTANGLE
 $A = L \times W$



TRIANGLE
 $A = \frac{1}{2} \times b \times h_v$
(vertical height)



PARALLELOGRAM
 $A = b \times h_v$



TRAPEZIUM
 $A = \frac{1}{2} \times (a + b) \times h_v$



CIRCLE
 $A = \pi r^2$

PERIMETERS

DISTANCE AROUND THE EDGE OF A SHAPE



PERIMETER = $3+3+3+3 = 12\text{cm}$
 16cm^2

BEARINGS

- FIND FROM POINT
- MEASURE FROM NORTH LINE TO LINE JOINING THE TWO POINTS, CLOCKWISE



FORMULA TRIANGLES

IF A FORMULA LOOKS LIKE $A = B \times C$ USE A TRIANGLE



OTHER FORMULAS EG $\text{SPEED} = \frac{\text{DISTANCE}}{\text{TIME}}$



COVER UP THE THING YOU WANT TO FIND



TO FIND TIME
 $\text{TIME} = \frac{\text{DISTANCE}}{\text{SPEED}}$

- DEFINITIONS**
- SUM = ADD UP
 - PRODUCT = MULTIPLY
 - FACTORISE = PUT INTO BRACKETS

VOLUMES



$V = L \times W \times h$
CUBOID

PRISM



$V = \text{CROSS SECTION AREA} \times L$

LCM - LEAST COMMON MULTIPLE

THE SMALLEST NO. THAT DIVIDES INTO ALL THE NUMBERS IN THE QUESTION

HCF - HIGHEST COMMON FACTOR
THE BIGGEST NUMBER THAT DIVIDES INTO ALL THE NUMBERS IN THE QUESTION

POWERS

$3^2 \times 3^3 = 3^{2+3} = 3^5$

$3^3 \div 3^2 = 3^{3-2} = 3^1 = 3$

$(3^2)^3 = 3^{2 \times 3} = 3^6$

GRADIENT = CHANGE IN X / CHANGE IN Y

EQⁿ OF A LINE $y = mx + c$

Nth number $dn + (a - d)$

PROBABILITY

$P(A \text{ and } B) = P(A) \times P(B)$

$P(A \text{ or } B) = P(A) + P(B)$

CIRCUMFERENCE IS SAME AS PERIMETER
 $C = \pi d$
 $C = 2\pi r$

FAB FOUNDATION FORMULAE

REPEATED PERCENTAGE INCREASE + DECREASES

COMPOUND INTEREST

$N = N_0 \left(1 + \frac{r}{100}\right)^n$

where, N = existing amount
N₀ = original amount
r = rate eg 5%
n = no of days/yr

(COMPOUND INTEREST)

SIMPLE INTEREST

- EASIER THAN COMPOUND
- WORK OUT PERCENTAGE CHANGE IN ONE YR
 - MULTIPLY BY NO OF YEARS
- £1000 at 8% for 2 yrs
 $\frac{8}{100} \times 1000 = £80$ for 1 yr
 $£80 \times 2 \text{ yrs} = £160$ = INTEREST

PERCENTAGES

FIND 20% OF £60

$\frac{20}{100} \times 60 = £12$

A. DIVIDE BY 100

PERCENTAGE CHANGE

WORK OUT THE PERCENTAGE, THEN ADD OR SUBTRACT FROM THE ORIGINAL VALUE

A RADIO IS DISCOUNTED FROM £8 BY 25%. WHAT IS THE NEW PRICE?

$25\% \times £8 = £2$
NEW PRICE = $£8 - £2 = £6$

WRITE A NUMBER AS A PERCENTAGE OF ANOTHER

- EXPRESS £2 AS A PERCENTAGE OF £20
- FRACTION = $\frac{2}{20}$
 - DECIMAL = $\frac{2}{20} = 0.1$
 - PERCENTAGE = $0.1 \times 100 = 10\%$ (TO TURN DECIMALS INTO PERCENTAGES JUST $\times 100$)

- SQUARE NUMBERS**
1x1, 2x2, 3x3 etc
= 1, 4, 9, 16, 25, 36...
- CUBE NUMBERS**
1x1x1, 2x2x2, 3x3x3
= 1, 8, 27...
- PRIME NUMBERS**
CAN ONLY BE DIVIDED BY THEMSELVES AND 1
eg 1, 2, 3, 5, 7, 11...
ALL PRIMES ARE ODD - EXCEPT 2

- FREQUENCY**
- MODE = MOST COMMON
 - MEDIAN = MIDDLE VALUE
 - MEAN = TOTAL NO. ITEMS
 - RANGE = SMALLEST TO BIGGEST

CONVERSION OF UNITS

- 1cm = 10mm
- 1m = 100cm
- 1km = 1000m
- 1kg = 1000g
- 1 tonne = 1000kg
- 1 litre = 1000ml
- 1 litre = 1000cm³
- 1cm³ = 1ml
- 1 foot = 12 inches
- 1 yard = 3 feet
- 1 gallon = 8 pints
- 1 stone = 14 pounds
- 1 pound = 16 ounces

ROUNDING OFF

FIND THE LAST DIGIT THEN LOOK AT ONE TO THE LEFT

7.52 to 1 d.p.
2 is below 5 so 7.5

ACCURACY

- CASUAL MEASUREMENTS 2 SIG
- TECHNICAL MEASUREMENTS 3 SIG

BODMAS

- BRACKETS
- OTHER
- DIVISION
- MULTIPLICATION
- ADDITION
- SUBTRACTION

BIG NUMBERS

GROUP INTO 3'S
eg 2, 341, 264

TURN DECIMALS INTO FRACTIONS

IF THERE IS A RATIO 1:2 OF RED BALLS TO GREEN BALLS THERE WOULD BE $\frac{1}{2}$ AS MANY RED BALLS THAN GREEN BALLS

FIND A FRACTION OF SOMETHING

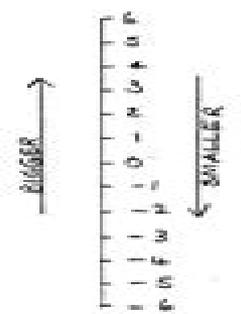
MULTIPLY BY THE FRACTION
eg $\frac{5}{20}$ of £100
 $= \frac{5}{20} \times 100 = £30$

FRACTIONAL CHANGE

A HOUSE COSTING £20,000 IS REDUCED BY $\frac{1}{4}$. HOW MUCH IS IT?
 $\frac{1}{4} \times £20,000 = £5,000$
NEW PRICE = $£20,000 - £5,000 = £15,000$

REALLY REALLY IMPORTANT CONVERSIONS

- 1kg = 2.2 lbs (pounds)
- 1 litre = $\frac{1}{4}$ pints
- 1 mile = $\frac{1}{6}$ km
- 5 miles = 8 km



Igcse Maths Revision

Martin Law



Igcse Maths Revision :

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producing cells half two diploid cells answer

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