CIRCLE THEOREMS

RADIUS
TANGENT

x
$2x$

DIAMETER

CHORD

$a = a$
$b = b$
$a + b = 180°$

SPEED $= \dfrac{\text{DISTANCE}}{\text{TIME}}$

GEOMETRY

$a + b + c = 180°$

$a + b + c = 180°$

$a + b + c + d = 360°$

$a + b + c = 360°$

$a + b = c$

$c = d$
$\triangle$ ISOCELES

$a = a$

SOH - CAH - TOA

H
A
O

H
A

$SIN = \dfrac{O}{H}$

$COS = \dfrac{A}{H}$

$TAN = \dfrac{O}{A}$
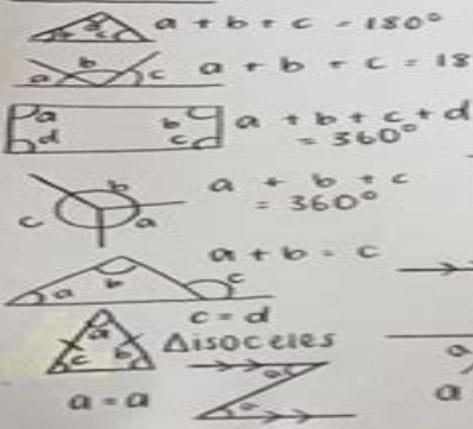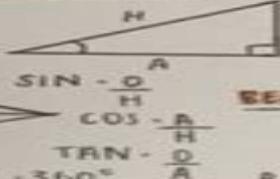
$a + b + c + d = 360°$
$a + c = 180°$
$b + d = 180°$

SINE RULE

$\dfrac{a}{\sin A} = \dfrac{b}{\sin B} = \dfrac{c}{\sin C}$

PYTHAG
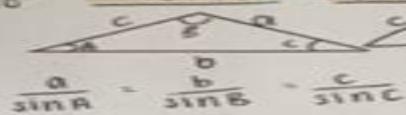
$c^2 = a^2 + b^2$

COSINE RULE

$a^2 = b^2 + c^2 - 2bc \times \cos A$

OR $\cos A = \dfrac{b^2 + c^2 - a^2}{2bc}$
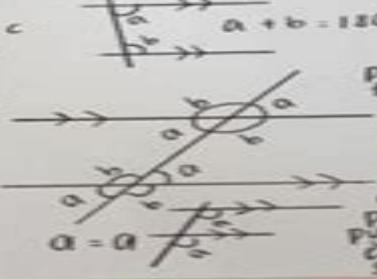
AREA $= \frac{1}{2} ab \sin C$

QUADRATIC FORMULA

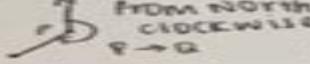$x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

for $ax^2 + bx + c$

POLYGONS

ext. angle $= 360°$
sum of ext $\angle = 360°/n$
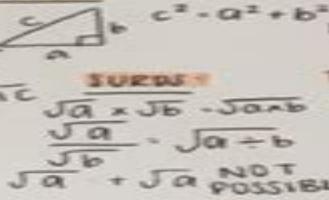sum of int $\angle = (n-2) \times 180$
when n = number of sides

$a + b = 180°$

AREAS

rectangle = $L \times W$
triangle = $\frac{1}{2} \times b \times h$
parallelogram = $b \times h$
trapezium = $\frac{1}{2} \times (a+b) \times h$
circle = πr^2
sector = $\dfrac{\theta}{360} \times$ area of circle

VOLUME

cuboid = $L \times W \times H$
prism = area of CS $\times L$
pyramid = $\frac{1}{3} \times$ base area $\times H$
cone = $\frac{1}{3} \times \pi r^2 \times H$
sphere = $4/3 \pi r^3$

CUMULATIVE FREQ GRAPHS

o median - halfway
quartiles - $\frac{1}{4}$ and $\frac{3}{4}$
interquartile - distance
range between $\frac{1}{4}$ and $\frac{3}{4}$

BEARINGS

from NORTHLINE
CLOCKWISE
P → Q

SURDS

$\sqrt{a} \times \sqrt{b} = \sqrt{ab}$

$\dfrac{\sqrt{a}}{\sqrt{b}} = \sqrt{a \div b}$

$\sqrt{a} + \sqrt{a}$ NOT POSSIBLE

TRAPEZIUM RULE

average of parallel
sides $\times$ distance between
$A = \frac{1}{2} \times (a+b) \times h$

% CHANGE $= \dfrac{\text{change}}{\text{original}} \times 100$

% PROFIT $= \dfrac{\text{profit}}{\text{original}} \times 100$

SIMPLE INTEREST

$I = P \times R \times t$
P = money invested
R = rate
t = time

COMPOUND INTEREST

$A = P \left(1 + \dfrac{r}{100}\right)^n$
n → years
r → rate
P → original value

FORMULA OF A STRAIGHT LINE

$y = mx + c$
m → gradient
c → y-intercept

PROBABILITY

P (A and B) $= P(A) \times P(B)$
P (A or B) $= P(A) + P(B)$

DATA

MODE - most common
MEDIAN - middle value
MEAN $= \dfrac{\text{total of items}}{\text{No. of items}}$
RANGE - biggest - smallest

TRANSLATIONS

y-axis:
$y = f(x) + a$
(expected)

x-axis:
$y = f(x - a)$
(opposite of expected)

reflections:
$y = -f(x)$ AND $y = f(-x)$

TRIG VALUES

$\sin 30° = \frac{1}{2}$ $\sin 45° = \frac{1}{\sqrt{2}}$
$\cos 30° = \frac{\sqrt{3}}{2}$ $\cos 45° = \frac{1}{\sqrt{2}}$
$\tan 30° = \frac{1}{\sqrt{3}}$ $\tan 45° = 1$
$\sin 60° = \frac{\sqrt{3}}{2}$
$\cos 60° = \frac{1}{2}$ $\tan 90° = \infty$
$\tan 60° = \sqrt{3}$ $\cos 90° = 0$
$\cos 0° = 1$ $\tan 0° = 0$ $\cos 90° = 0$
$\sin 0° = 0$

Maths Teacher Notes

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Maths Teacher Notes:

Maths Teacher Notes Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Maths Teacher Notes**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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