

110519

Name

Fill in the formulas - 378 seconds

Triangle angles sum
(α, β, γ)

$$\alpha + \beta + \gamma = 180$$

Volume of sphere
(V,r)

$$V = 4/3\pi r^3$$

Area of triangle
(A,h,w)

$$A = hw/2$$

Radius of circle (r,d)

$$r = d/2$$

 nPr

$$nPr = n!/(n-r)!$$

Area of rectangle
(A,h,w)

$$A = hw$$

Sum of arithmetic
series (Σ, n, F, L)

$$\Sigma = n(F+L)/2$$

 $(a+b)^2$

$$(a+b)^2 = a^2 + 2a b + b^2$$

Area of square given
diagonal, d (A,d)

$$A = d^2/2$$

Area of trapezoid
(A,a,b,h)

$$A = h(a+b)/2$$

Prob of A or B
($P_a | P_b, P_a, P_b$)

$$P_a | P_b = P_a + P_b - P_a * P_b$$

SA of Rect. prism
(SA,h,w,l)

$$A = 2(hw+hl+wl)$$

Diameter of a circle
(d,r)

$$d = 2r$$

Volume of cone
(V,r,h)

$$V = 1/3\pi r^2 h$$

Sum of #s given mean
& # terms (Σ, x_{bar}, n)

$$\Sigma = n * x_{bar}$$

SA of cylinder
(SA,r,h)

$$A = 2\pi r^2 + 2\pi rh$$

Perimeter of
rectangle (P,h,w)

$$P = 2h+2w$$

Area of Rhombus
(d_1, d_2)

$$A = (d_1 * d_2)/2$$

Regular polygon's interior
angle (α, n)

$$\alpha = 180 - 360/n$$

Range (R, F, L)

$$R = L - F$$

Definition of Pi (π ,
C,d)

$$\pi = C/d$$

 nCr

$$nCr = n! / [(n-r)! r!]$$

Area of circle (A,r)

$$A = \pi r^2$$

Area of square
(A,s)

$$A = s^2$$

Perimeter of a
Triangle (P, a,b,c)

$$P = a + b + c$$

of Terms in Arithmetic
Series (n,R, Δ)

$$n = R/\Delta + 1$$

Prob of A & B
(P_a & P_b, P_a, P_b)

$$P_a \& P_b = P_a * P_b$$

of Ways To Arrange N
Distinct Items (N)

$$N!$$

SA of cube (SA,s)

$$A = 6s^2$$

Average of Arithmetic
Series (F,L)

$$(F+L)/2$$

Volume of rect.
Prism (V,h,w,l)

$$V = hwl$$

Average of Set
(x_{bar}, Σ, n)

$$x_{bar} = \Sigma / n$$

Perimeter of square
(P,s)

$$P = 4s$$

Prob of A or B, not both (P_a
 $\oplus P_b, P_a, P_b$)

$$P_a \oplus P_b = P_a + P_b - 2 P_a * P_b$$

 $(a+b)(a-b)$

$$(a+b)(a-b) = a^2 - b^2$$

Space Diagonal of
Cube (d, s)

$$d = s * \text{sqr}(3)$$

Circumference of
circle (C,d)

$$C = \pi d$$

Volume of cylinder
(V,r,h)

$$V = \pi r^2 h$$

Area of parallelogram
(A,h,w)

$$A = hw$$

 $(a-b)^2$

$$(a-b)^2 = a^2 - 2a b + b^2$$

SA of sphere (SA,r)

$$A = 4\pi r^2$$

Volume of Cone or Pyramid
(V, B, L)

$$V = BL/3$$

Pythagorean theorem
(a,b,c)

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

Volume of Regular Prism or
Cylinder (V, B,L)

$$V = BL$$

Volume of cube
(V,s)

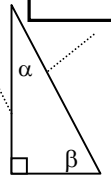
$$V = s^3$$

Circumference of
circle (C,r)

$$C = 2\pi r$$

8000Sqr(3)

16000

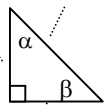
Simplest
Radical Form $\alpha = 30$
 $\beta =$

8000.

60

9000.

9000Sqr(2)

Simplest Radical
Form $\alpha = 45$
 $\beta =$

9000

45