SUN 月	MON —	TUE =	WED ≡	THU 四	FRI £	SAT 六
JUNE	In a right-angled triangle, where $C = 90^{\circ}$, $2\sin A\cos B\sin C - (\sin 2A - \sin 2B + \cos 2B) = ?$	Find the maximum value of $y = \frac{2}{3\sin x + 4}$.	Given $4^{x^2+2} = 8^{2x}$, find the sum of the roots.	Find k for $\log_9 81^k = 8$.	Find the last digit of $1^{2009} + 2^{2009} + 3^{2009} + 4^{2009} + 5^{2009}$.	If the median of the 5 different integers 2, 7, 10, x , $2x - 3$ is 7, then $x = ?$
六月 2009	1 初九	2 初十	3	4+=	5 芒種	6
The graph of $y = 2x^2 - 9x + 4$ cuts the x-axis at A and B, and the y-axis at C. Find the area of triangle ABC. $y = 2x^2 - 9x + 4$ $Q = 2x^2 - 9x + 4$	Solve for a : ${}_{24}C_0 + {}_{24}C_1 + {}_{24}C_2 + \dots + {}_{24}C_{24} = a^a$.	If area of triangle CDE : area of triangle $BCE = 1:2$, area of triangle CDE : area of trapezium $ABCD$ is $1:p, p = ?$	Two fair dice are thrown, the probability that only one '6' on top is $\frac{k}{36}$, $k = ?$	Find $\frac{x}{5}$. 100° $100°$ $100°$ $1 1$	輯錄自絹布問題《古算題》 今有絹布三十疋,共賣價錢五百七, 四疋絹價九十貫,三疋布價該五十, 欲問絹幾何?價鈔各該分端的, 若人算無差錯,堪把芳名題郡邑。	Given $\log_{(2x-5)} (3x^2 - 9x + 51) = 2$, find x for $x > 0$.
Given $BE = EF = FC$. The area of $\triangle AHG$ is $\frac{x}{5}$. Find x .	+ \Rightarrow Given $1^3 + 2^3 + + n^3 = 120^2$, find n .	Solve for n : ${}_{17}C_0 + {}_{17}C_1 + {}_{17}C_2 + + {}_{17}C_8 = 2^n.$	H八 Given $10 < R < 20$, find R for $R^5 = 1419857$ without using a calculator.	$D(x, y)$ is the intersection point of the angle bisectors of $\triangle ABC$ with vertices $A(25, 7)$, $B(18, a)$ and $C(11, 7)$. Find x .	There are 4 positive integers with one of them being even. The sums of any 2 of them are 54, 63, 75, 86, 98 and 107. If x is the sum of the 3 odd numbers among those 4 positive integers, find the value of $x - 100$.	Given $\frac{9}{10} = \frac{1}{A} + \frac{1}{B} + \frac{1}{C}$ where A, B, C are all distinct integers, find $A + B + C$.
$\bigcup_{B} \bigcap_{E} \bigcap_{F} \bigcap_{C} 14$	15 _{#=}	16 #M	17	18 #*	19	20
A straight line $y = p$ ($p > 0$) intersects the curve $y = x^2 - 4x + (21 + p)$ at $A(\alpha, p)$ and $B(\beta, p)$, find the value of $\alpha\beta$.	If $\tan A = \frac{-5}{4}$, then $\frac{2\sin A - 3\cos A}{-3\sin A + 2\cos A} = \frac{k}{23}$. Find k .	Solve for $n: 1 + 3 + 5 + + 45 = n^2$.	In the figure, X and Y are points on AB and BC respectively such that $AX : XB = 3 : 2$ and $BY : YC = 4 : 3$. If the area of $\triangle ABC = 70$, find the area of $\triangle AXY$.	The length of a rectangle is decreased by 20%. Assume the area of the rectangle remains unchanged, find the percentage increase of its width.	《九章算術》勾股: 今有圓材,埋在壁中,不知大小。以鎼鎼之,深一寸,鎼道長一尺。問徑幾何?	Find the area of the triangle ABC , correct to the nearest integer.
21 _{夏至}	22	23 閏五月	B C 24 初二	25 _{初三}	26 刻四	A No
If $28^a = 6$, $28^b = 18$, find the value of $3^{\frac{1}{b-a}}$.	Among 10 consecutive positive integers, the sum of multiples of 3 is 99 and the sum of multiples of 2 is 170. Find the smallest integer.	X's age is 5 times the sum of his two sons' ages now and it reduces to twice of their sum 6 years later. If the elder son's age is twice the age of the second son 3 years later from now, what is X's present age?	格勒)有一條河,河中心有兩個小重覆路線的情況下,一次逛完這七	生活事例:位於東普魯士柯尼斯堡(名 島。小島與河的兩岸共有七條橋連接	· 怎樣才能在不	

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