

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 香港特別行政區成立紀念日 Number of Millennium Prize Problems that have been solved so far.	2 十七 The only even prime number is 2.	3 十八 There are only 3 double factorial primes that are less than 500.	4 十九 Any integer of the form $n^4 + 4$ is not a prime, where n is an integer.
5 二十一 Find the value of n if an n -sided polygon has n diagonals.	6 廿一 To partition a surface into regions of equal area, a regular hexagonal grid has the least perimeter.	7 小暑 7 is a double Mersenne prime.	8 廿三 If $\log_5(\log_3 x) = \log_3(\log_5 y) = 0$ find $x + y$.	9 廿四 If you multiply 9 by any natural number, and repeatedly add the digits of the answer until it is just one digit, you will end up with 9.	10 廿五 There are 10 ways to colour faces of a cube using at most 2 colours.	11 廿六 The number of space-time dimensions in M-theory is 11.
12 廿七 Genuine Clock (Modular Arithmetic)!	13 廿八 13 is the smallest prime that is also a prime when its digits are reversed.	14 廿九 The number of possible Bravais lattices to fill three-dimensional space completely is 14.	15 三十 In quadrilateral $ABCD$, $AB = 9$, $BC = 20$, $CD = 6$, $DA = 7$ and BD is an integer. Find BD .	16 初一 The smallest number with exactly 5 divisors is 16.	17 初二 $2^{2^2} + 1 = ?$	18 初三 18 is the only positive integer that equals twice the sum of its decimal digits.
19 初四 The cubic root of $27^2 + 37^2 + 69^2$.	20 初五 The quantity referred to as a "score" is ____?	21 初六 21 is the smallest positive integer that stays away from any 2^n by a distance of more than n .	22 初七 Pi approximation day is ____?	23 初八 23 is the integer closest to Gelfond's constant.	24 初九 A right-angled triangle with integer sides has its area equal to the perimeter. Find the smallest possible area of the triangle.	25 初十 There are 25 prime numbers that are smaller than 100.
26 十一 26 is the only positive integer sandwiched between a square and a cube.	27 十二 $14^2 - 13^2 = ?$	28 十三 28 is a hexagonal number.	29 十四 The 10 th term of the arithmetic sequence with first term 2 and common difference 3 is 29.	30 十五 Number of days in four months of a year.	31 十六 The largest prime factor of 2015 is 31.	



第五十七屆國際數學奧林匹克
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