SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	<b>1</b> 世九	<b>2</b> ≡+	<b>3</b> 七月	<b>4</b> 初二	<b>5</b> 初三	<b>6</b> 初四
	$A = \{x: x + 3 > 16\},$ $B = \{x:  2x  < 30\},$ $C = \{x: x \text{ is an integer}\}.$ Find the number of elements in $A \cap B \cap C$ .	$\begin{array}{cc} 5 A 7 \\ \times B \\ \hline 4 A C 6 \end{array}$ If $A > C$ , find the value of $A$ .	If a is the units digit of $2^{2016} + 0^{2016} + 1^{2016} + 6^{2016}$ , find the value of a.	Find the remainder of 6 <sup>58</sup> divided by 13.	If $2 - i$ is a root of $x^2 + cx + d = 0$ , where $c$ and $d$ are real numbers, find the value of $d$ .	Given that the polar coordinates of $A$ and $B$ are (3, 120°) and (4, 210°) Find the area of $\triangle OAB$ .
<b>7</b> 立秋	<b>8</b> 初六	<b>9</b> 初七	<b>10</b> 初八	<b>11</b> 初九	<b>12</b> 初十	<b>13</b>
Given $x^2 + 2 = p(x-1)(x-2) + q(x-15) + r$ . If $7d = p + q + r$ , find the value of $d$ .	If the number 301.02 is written in base four and the digit 2 has the value $\frac{1}{A}$ , $A = ?$	If $x^4 = y^9$ and $a = 4 \log_y x$ , find the value of a.	$ (\sqrt{2} + \sqrt{1})^{-1} + (\sqrt{3} + \sqrt{2})^{-1} + \dots + (\sqrt{100} + \sqrt{99})^{-1} + 1 = ?. $	If the number of ways of selecting 2 representatives from a team of <i>n</i> members is 55. Find the value of <i>n</i> .	The maximum value of $\frac{83x^2 - 166x + 275}{4x^2 - 8x + 20}$ is	Given that $\begin{cases} \alpha^2 = -3\alpha + 2 \\ \beta^2 = -3\beta + 2 \end{cases}$ where $\alpha \neq \beta$ . Then $\alpha^2 + \beta^2 = \underline{\hspace{1cm}}$ .
14 +=	15 +=	。 - 16 +四	<b>17</b> +五	<b>18</b> +☆	<b>19</b> ++	20
Given that $AE : EB = 1 : 3$ , AD : DC = 4 : 3. If the area of $\triangle BDE = 6$ , the area of $\triangle ABC$ is	If the graph of $y = x^2 - 1$ is translated 5 units to the right and then reflected about the y-axis, the resulting graph is $y = px^2 + qx + r$ , find the value of $p + q + r$ .	If the area of trapezium $ABCD$ is $192 \text{ cm}^2$ , find $CD$ .	Given that $f(x+3) = 2x^2 - 3x - 27$ . Find the remainder when $f(x-1)$ is divided by $x$ .	Let T(n) denote the maximum number of regions of n lines dividing a circle. T(1) = 2, $T(2) = 4$ , $T(3) = 7Find the value of n if T(n) = 172.$	How many trailing zero are there in the product $1 \times 2 \times 3 \times \times 80$ ?	Find the number of shortest routes from <i>P</i> to <i>Q</i> .
<b>21</b> + n	<b>22</b> =+	<b>23</b> 處暑	24 #=	25 #=	26 世四	27 ##
Find the total number of positive integral solutions of the equation $x + y + z = 8$ .	If the radius of the inscribed circle is 4 cm and the perimeter of the triangle is 52 cm, find the length of the longest side of the triangle.	$\alpha$ and $\beta$ are the roots of the equation $x^2 - x - 11 = 0$ . Find the value of $\alpha^3 + 12\beta$ .	The lengths of the sides of a right-angled triangle form an arithmetic sequence. If the length of the hypotenuse is 10, find its perimeter.	A semi-circle with radius 2.5 is inscribed in a right-angled triangle <i>ABC</i> with centre <i>O</i> lying on the hypotenuse <i>AC</i> of length $10\sqrt{3}$ . Find the area of $\Delta ABC$ .	AB is a tangent to the circle at $T$ . O is the centre, $AODC$ is a straight line with $OD = CD$ , $\angle CBD = 32^{\circ}$ and $\angle BAC = x^{\circ}$ . Find the value of $x$ .	Given that $xyz = -555$ , where $x$ , $y$ and $z$ are distinct integers. $\frac{\min(x + y + z)}{-7} =$
<b>28</b>	29 #±	<b>30</b> 廿八	<b>31</b> 世九			
The numerals and the letters in the triangle represent the areas of the six smaller triangles. Find the value of $x + y$ .	Given that the equation $x^2 - (\sqrt{5} + 28)x + \sqrt{5}n - 29 = 0$ has one positive integral root. Find the value of $n$ .	In $\triangle ABC$ , $\frac{\tan A + \tan B}{\tan B} = \frac{2c}{\sqrt{3}b}$ and $A = x^{\circ}$ . Find the value of $x$ .	The figure shows 677 two identical golden triangles (an isosceles triangle with vertical angle 36°). Find the value of <i>x</i> .			



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