SODOKU IN MATHEMATICS
Written by Stéphane CILIERE, math teacher in grammar school Sainte Marie in Caen

Answer all questions given below to fill the grid and finally solve this sodoku.

	(1)		(2)		(3)			(4)
(5)				(6)	(7)		(8)	(9)
	(10)	(11)	(12)	(13)		(14)		
(15)		(16)		(17)	(18)	(19)		(20)
	(21)						(22)	
(23)		(24)	(25)	(26)		(27)		(28)
(29)		(30)		(31)		(32)	(33)	
	(34)		(35)	(36)				(37)
(38)			(39)				(40)	

(1) $= \sqrt{36} - \sqrt{1}$

(2) = Solve equation : $x + 2 = 5$

(3) = Numerator of simplified fraction $\dfrac{108}{414}$

(4) $= \dfrac{9}{4} + \dfrac{19}{4}$

(5) = Solve equation : $(x - 4)(x - 3) = 0$ and add the solutions

(6) $= \dfrac{4}{3} \times 6$

(7) = Solve this system of linear equations : $\begin{cases} 2x + y = 8 \\ 2x + 4y = 14 \end{cases}$ and add the solutions

(8) = An odd prime number

(9) = Solve equation : $3x + 2 = 14$

(10) = Image of 4 by function defined by $f(x) = x^2 - 3x + 5$

(11) = Sove this system of linear equation : $\begin{cases} x + y = 6 \\ x - y = -2 \end{cases}$ and give the product of the solutions

(12) = Total number of axes of symmetry existing in any square

(13) = Reciprocal of 0,5

(14) $= 2\sqrt{9}$

(15) = One third of 27

(16) = Add all probabilities of all outcomes of a trial and give this sum.

(17) = Numerator of $\dfrac{1}{2} + \dfrac{3}{4}$

(18) = Power of 10 which equals 1000

(19) $= \dfrac{(2\sqrt{3})^2}{6}$

(20) $= \dfrac{1}{2} + \dfrac{7}{4} + \dfrac{12}{3} - \dfrac{1}{4}$

(21) = Power of 2 which is equal to 8

(22) $= \dfrac{10^3}{1\,000}$

(23) = Pre-image of 3 by function f defined by : $f(x) = 2x - 7$

(24) = Solve this system of linear equations : $\begin{cases} 5x + 2y = 63 \\ 3x - 2y = 25 \end{cases}$ and give the difference of the solutions

(25) = Total number of sides of equal length existing in any isosceles triangle

(26) = 12,5 % de 48

(27) $= \dfrac{18}{5} \times \dfrac{25}{2} \times \dfrac{1}{5}$

(28) = Total number of planets in the solar system

(29) = Total number of possible remainders obtained when dividing any whole number by 4

(30) = Solve equation : $x + \dfrac{4}{3} = \dfrac{19}{3}$

(31) = Mean of the following whole numbers : 15, 12, 7 and 2

(32) $= \dfrac{\sqrt{27}}{\sqrt{3}}$

(33) = Total number of vertices contained in Kheops pyramid

(34) $= \sqrt{81} - \sqrt{64}$

(35) $= \dfrac{\sqrt{125} + \sqrt{175}}{\sqrt{5} + \sqrt{7}}$

(36) = 4th odd whole number

(37) = Total number of axes of symmetry existing in any rectangle

(38) = Number whose square root equals $2\sqrt{2}$

(39) = Solve equation : $\dfrac{x}{2} + 4 = \dfrac{9}{2}$

(40) = 4 raised up to 75 %