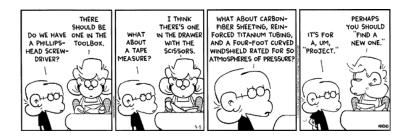
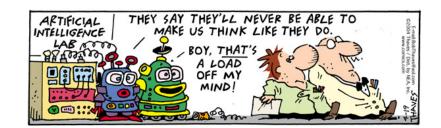


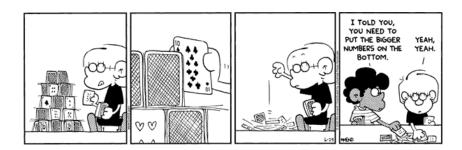
$x^{4} - 8192x^{3} + 25163864x^{2} - 34351710208x + 17583965554320 = 0$





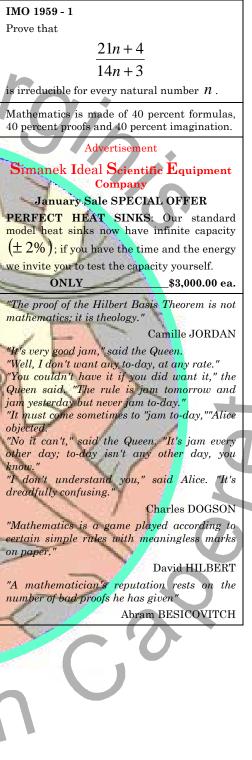


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January

52	1	\mathbf{S}	(1803) Guglielmo LIBRI Carucci dalla Sommaja
			(1878) Agner Krarup ERLANG (1894) Satyendranath BOSE
			(1912) Boris GNEDENKO
1	2	Μ	(1822) Rudolf Julius Emmanuel CLAUSIUS
-	-	111	(1905) Lev Genrichovich SHNIRELMAN
	•	m	(1938) Anatoly SAMOILENKO
	3	Т	(1917) Yuri Alexeievich MITROPOLSHY
	4	W	(1643) Isaac NEWTON
	5	Т	(1838) Marie Ennemond Camille JORDAN
			(1871) Federigo ENRIQUES (1871) Gino FANO
	6	F	(1807) Jozeph Mitza PETZVAL-
			(1841) Rudolf STURM
	7	S	(1871) Felix Edouard Justin Emile BOREL (1907) Raymond Edward Alan Christopher PALEY
	8	s	(1888) Richard COURANT
	U		(1924) Paul Moritz COHN
0	0	м	(1942) Stephen William HAWKING
2	9	M	(1864) Vladimir Adreievich STELKOV (1875) Issai SCHUR
	10	Т	(1905) Ruth MOUFANG
	11	W	(1545) Guidobaldo DEL MONTE
			(1707) Vincenzo RICCATI (1734) Achille Pierre Dionis DU SEJOUR
	12	Т	(1906) Kurt August HIRSCH
		F	(1864) Wilhelm Karl Werner Otto Fritz Franz WIEN
	13	r	(1876) Luther Pfahler EISENHABT
			(1876) Erhard SCHMIDT
	14	\mathbf{S}	(1902) Alfred TARSKI
	15	S	(1704) Johann CASTILLON (1717) Mattew STEWART
		(FIL)	(1850) Sofia Vasilievna KOVALEVSKAJA
3	16	M	(1801) Thomas KLAUSEN
	17	T	(1847) Nikolay Egorovich ZUKOWSKY
	18	w	(1858) Gabriel KOENIGS (1856) Luigi BIANCHI
	10	vv	(1880) Paul EHRENFEST
	19	T	(1813) Rudolf Friedrich Alfred CLEBSCH
			(1879) Guido FUBINI (1908) Aleksandr Gennadievich KUROS
	20	F	(1775) Andre` Marie AMPERE
			(1895) Gabor SZEGO (1904) Renato CACCIOPPOLI
	21	s	(1904) Renato CACCIOLION (1846) Pieter Hendrik SCHOUTE
	21		(1915) Yuri Vladimirovich LINNIK
	22	S	(1592) Pierre GASSENDI (1908) Lev Davidovich LANDAU
4	23	Μ	(1906) Lev Davidovich LANDAO (1840) Ernst ABBE
т	40		(1862) David HILBERT
	24	Т	(1891) Abram Samoilovitch BESICOVITCH (1914) Vladimir Petrovich POTAPOV
	25	W	(1627) Robert BOYLE
	20		(1736) Joseph-Louis LAGRANGE
	20	m	(1843) Karl Herman Amandus SCHWARTZ
	26	Т	(1799) Benoit Paul Emile CLAPEYRON
	27	F	(1832) Charles Lutwidge DODGSON
	28	\mathbf{S}	(1701) Charles Marie de LA CONDAMINE (1892) Carlo Emilio BONFERRONI
	29	\mathbf{S}	(1817) William FERREL
			(1888) Sidney CHAPMAN
	30	Μ	(1619) Michelangelo RICCI
5			(1715) Cievenni Energeage FACNANO dei Teachi
5	31	Т	(1715) Giovanni Francesco FAGNANO dei Toschi (1841) Samuel LOYD



February

<u> </u>				
5	1	W	(1900) John Charles BURKILL	IMO 1959 - 2
	2	Т	(1522) Lodovico FERRARI	For what real values of \mathcal{X} is
	3	F	(1893) Gaston Maurice JULIA	$\sqrt{x + \sqrt{2x - 1}} + \sqrt{x - \sqrt{2x - 1}} = A$
	4	\mathbf{S}	(1905) Eric Cristopher ZEEMAN	
	5	S	(1757) Jean Marie Constant DUHAMEL	given:
6	6	Μ	(1612) Antoine ARNAULD (1695) Nicolaus (II) BERNOULLI	$A = \sqrt{2}$,
	7	Т	(1877) Godfried Harold HARDY	
	ø	W	(1883) Eric Temple BELL (1700) Daniel BERNOULLI	A = 1,
	8	vv	(1875) Francis Ysidro EDGEWORTH	-A = 2,
	9	Т	(1775) Farkas Wolfgang BOLYAI (1907) Harod Scott Mc Donald COXETER	where only non-negative real numbers are
	10	F	(1747) Aida YASUAKI	allowed in square roots and the root always
	11	S	(1800) William Henry Fox TALBOT	denotes the non-negative root?
			(1839) Josiah Willard GIBBS (1915) Richard Wesley HAMMING	the new prime number discovered recently is
	12	S	(1914) Hanna CAEMMERER NEUMANN	four times bigger then the previous record
7	13	M	(1805) Johann Peter Gustav Lejeune DIRICHLET	CNN
'	14	T	(1468) Johann WERNER	Advertisement
	11		(1849) Hermann HANKEL (1896) Edward Artur MILNE	Simanek Ideal Scientific Equipment
	15	W	(1564) Galileo GALILEI	Company
	10		(1861) Alfred North WHITEHEAD	February Sale SPECIAL OFFER
	16	T	(1946) Douglas HOFSTADTER (1822) Francis GALTON	TRIVIAL SOLUTION : Perfect for cleaning up
	10	-1	(1853) Georgorio RICCI-CURBASTRO	those seemingly insoluble problems messing up
	17	F	(1903) Beniamino SEGRE (1890) Sir Rønald Aymler FISHER	your lab. \$10/liter
		ment.	(1891) Adolf Abraham Halevi FRAENKEL	ONLY\$10.00/lt.
	18	S	(1404) Leon Battista ALBERTI	"Common sense is not really so common"
	19	S	(1473) Nicolaus COPERNICUS	Antoine ARNAUD
8	20	М	(1844) Ludwig BOLTZMANN	"Archimedes will be remembered when
	21	Т	(1591) Girard DESARGUES (1915) Evgenni Michailovitch LIFSHITZ	Aeschylus is forgotten, because languages die and mathematical ideas do not. "Immortality"
	22	W	(1903) Frank Plumpton RAMSEY	may be a silly word, but probably a
	23	T	(1583) Jean-Baptiste MORIN	mathematician has the best chance of whatever
	94	TP -	(1951) Shigefumi MORI (1871) Felix BERNSTEIN	it may mean." Godfried HARDY
	24	F S	(1827) Henry WATSON	"it would be better for the true physics if there
	25 26	s S	(1786) Dominique Francois Jean ARAGO	were no mathematicians on earth"
9	26 27	M	(1786) Dominique Francois Jean ARACO (1881) Luitzen Egbertus Jan BROUWER	Daniel BERNOULLI
5	27 28	T	(1735) Alexandre Theophile VANDERMONDE	"Epur si muove"
	40	1	(1755) Alexandre Theophile VANDERMONDE (1860) Herman HOLLERITH	Galileo GALILEI
				"Euler calculated without effort, just as men
				breathe, as eagles sustain themselves in the air"
				Dominique ARAGO
			UG NI	

March

9	1	W	(1611) John PELL		
Ŭ	2	Т	(1836) Julius WEINGARTEN		IMO 1959 - 3
	3	F	(1838) George William HILL		Let a,b,c be real numbers. Given the
	_		(1845) Georg CANTOR		equation for $\cos x$:
	4	S	(1822) Jules Antoine LISSAJUS		$a\cos^2 x + b\cos x + c = 0,$
	5	\mathbf{S}	(1512) Gerardus MERCATOR (1759) Benjamin GOMPERTZ		
			(1817) Angelo GENOCCHI	- 1	form a quadratic equation in $\cos 2x$ whose
10	6	Μ	(1866) Ettore BORTOLOTTI		roots are the same values of X . Compare the
	7	Т	(1792) William HERSCHEL (1824) Delfino CODAZZI		equations in $\cos x$ and $\cos 2x$ for:
	8	W	(1851) George CHRYSTAL		a=4,
	9	Т	(1818) Ferdinand JOACHIMSTHAL	1	h = 2
	10	F	(1900) Howard Hathaway AHKEN (1864) William Fogg OSGOOD	and the second s	
	11	S	(1804) Winnam Fogg ObdOOD (1811) Urbain Jean Joseph LE VERRIER		c = -1.
			(1853) Salvatore PINCHERLE		Math is like love – a simple idea but it can get
	12	\mathbf{S}	(1685) George BERKELEY (1824) Gustav Robert KIRKHHOFF	1	complicated.
			(1859) Ernesto CESARO	1	Advertisement
11	13	Μ	(1861) Jules Joseph DRACH (1957) Rudy D'ALEMBERT	100	
	14	T	(1864) Jozef KURSCHAK		Simanek Ideal Scientific Equipment Company
	1.5	TH	(1879) Albert EINSTEIN (1860) Walter Frank Raphael WELDON		March Sale SPECIAL OFFER
	15	W	(1868) Grace CHISOLM YOUNG	-	CARNOT ENGINES : These engines operate
	16	-T	(1750) Caroline HERSCHEL (1789) Georg Simon OHM		silently and never need lubrication.
			(1846) Magnus Gosta MITTAG-LEFFLER		Guaranteed efficiency of (1 - Tc/Th). Can be
	17	F	(1876) Ernest Benjamin ESCLANGON (1897) Charles FOX		run in reverse to cool the lab in summer. Use with our perfect heat sinks for best results.
	18	S	(1640) Philippe de LA HIRE		ONLY\$3,000.00 ea.
		1-	(1690) Christian GOLDBACH (1796) Jacob STEINER	N	"And what are these fluxions? The velocities of
	19	S	(1862) Adolf KNESER	1	evanescent increments? They are neither finite
10		100	(1910) Jacob WOLFOWITZ (1840) Franz MERTENS		quantities, nor quantities infinitely small, nor yet nothing. May we not call them ghosts of
12	20	Μ	(1884) Philip FRANCK		departed quantities?"
		1	(1938) Sergi Petrovich NOVIKOV (1768) Jean Baptiste Joseph FOURIER		George BERKELEY
	21	T	(1884) George David BIRKHOFF		"Common sense is nothing more than a deposit
	22	W	(1917) Irving KAPLANSKY		of prejudices laid down in the mind before you reach eighteen."
	23	Т	(1754) Georg Freiherr von VEGA (1882) Emmy Amalie NOETHER	-	Albert EINSTEIN
			(1897) John Lighton SYNGE	1	"We [he and Halmos] share a philosophy about
	24	F	(1809) Joseph LIOUVILLE (1948) Sun-Yung (Alice) CHANG		linear algebra: we think basis-free, we write
	25	S	(1538) Christopher CLAUSIUS		basis-free, but when the chips are down we
	26	S	(1848) Konstantin ADREEV		close the office door and compute with matrices like fury."
10			(1913) Paul ERDOS		Irving KAPLANSKY
13	27	M	(1857) Karl PEARSON		"A Mathematician is a machine for turning
	28	Ť	(1749) Pierre Simon de LAPLACE (1825) Francesco FAA` DI BRUNO		coffee into theorems. "
	29	W	(1873) Tullio LEVI-CIVITA		Paul ERDOS
		_	(1896) Wilhelm ACKERMAN		"What we know is not much. What we do not
	30	Т	(1892) Stefan BANACH		know is immense."
	31	F	(1596) Rene` DESCARTES		Pierre Simon de LAPLACE

April

13	1	\mathbf{S}	(1640) Georg MOHR (1776) Marie-Sophie GERMAIN	IMO 1959 - 4
	2	\mathbf{S}	(1895) Alexander Craig AITKEN (1934) Paul Joseph COHEN	Given the length $\left AC ight $, construct a triangle
14	3	M	(1835) John Howard Van AMRINGE (1892) Hans RADEMACHER (1900) Albert Edward INGHAM	ABC with angle $A\hat{B}C = 90^{\circ}$, and the median BM satisfying:
	4	Т	(1909) Stanislaw Marcin ULAM (1971) Alice RIDDLE (1809) Benjamin PEIRCE	$BM^{2} = AB \cdot BC$
	4 5	I W	(1842) Francois Edouard Anatole LUCAS (1949) Shing-Tung YAU (1588) Thomas HOBBES	In modern mathematics, algebra has become so important that numbers will soon only
		vv	(1607) Honore' FABRI (1622) Vincenzo VIVH NI (1869) Sergi Alexeievich ChAPLYGIN	have symbolic meaning. Advertisement
	6	Т		Simanek Ideal Scientific Equipment
	7	F	(1768) Francais Joseph FRANCAIS	Company
	8	\mathbf{S}	(1903) Marshall Harvey STONE	April Sale SPECIAL OFFER
	9	S	(1791) George PEACOCK (1816) Charles Eugene DELAUNAY (1919) John Presper HECKERT	OCCAM'S RAZOR : The basic model introduced by Occam has been greatly improved by the Swiss craftsmen in our Hong
15	10	M	(1857) Henry Ernest DUDENEY	Kong manufacturing facility. Blades of finest
	11	T	(1953) Andrew John WILES (1794) Germinal Pierre DANDELIN	Swedish surgical steel (imported from Japan). Perfect for slicing through obfuscation,
	12	W	(1852) Carl Louis Ferdinand Von LINDEMANN (1903) Jan TINBERGEN	severing red tape, and cutting up a colleague's pet theory.
	13	Т	(1728) Paolo FRISI (1813) Duncan Farquharson GREGORY (1879) Francesco SEVERI	ONLY\$75.00 ea. Extra blades: \$5/doz.
	14	F	(1629) Christiaan HUYGENS	"The notion of a set is too vague for the
\square	15	S	(1452) Leonardo da VINCI (1548) Pietro Antonio CATALDI (1707) Leonhard EULER	continuum hypothesis to have a positive or negative answer." Paul Joseph COHEN
	16	s	(1809) Herman Gunther GRASSMANN (1682) John HADLEY (1823) Ferdinand Gotthold Max EISENSTEIN	"Knowing what is big and what is small is more important than being able to solve
16	17	Μ	(1798) Etienne BOBILLIER (1853) Arthur Moritz SCHONFLIES	partial differential equations"
	18	T	(1907) Lars Valerian AHLFORS (1918) Hsien Chung WANG (1949) Charles Luois FEFFERMAN	Stanislaw Marcin ULAM "You treat world history as a mathematician
	19	W	(1880) Evgeny Evgenievich SLUTSKY	does mathematics, in which nothing but laws and formulae exist, no reality, no good and
		38	(1883) Richard VIN MISES (1901) Kiyoshi OKA (1905) Charles EHRESMANN	evil, no time, no yesterday, no tomorrow, nothing but an eternal shallow, mathematical
	20	Т	(1839) Francesco SIACCI	present."
	21	F	(1652) Michel ROLLE (1774) Jean Baptiste BIOT (1875) Teiji TAKAGI	Otto Ludwig HESSE "An important scientific innovation rarely makes its way by gradually winning over and
	22	S	(1811) Otto Ludwig HESSE (1887) Harald August BOHR	converting its opponents: it rarely happens
	23	\mathbf{S}	(1858) Max Karl Ernst Ludwig PLANCK	that Saul becomes Paul. What does happen is that its opponents gradually die out, and that
17	24	Μ	(1863) Giovanni VAILATI	the growing generation is familiarised with
	25	Т	(1849) Felix Christian KLEIN (1900) Wolfgang PAULI (1903) Andrei Nicolayevich KOLMOGOROV	the ideas from the beginning" Max Karl Ernst Ludwig PLANCK
	26	W	(1889) Ludwig Josef Johan WITTENGSTEIN	"Everyone knows what a curve is, until he has
	27	Т	(1755) Marc-Antoine PARSEVAL des Chenes	studied enough mathematics to become confused through the countless number of
	28	\mathbf{F}	(1906) Kurt GODEL	possible exceptions."
	29	\mathbf{S}	(1854) Jules Henri POINCARE`	Felix KLEIN
	30	S	(1777) Johann Carl Friedrich GAUSS (1916) Claude Elwood SHANNON	" The fact that the author thinks slowly is not serious, but the fact that he publishes faster than he thinks is inexcusable."
				Wolfgang PAULI

May

			,		
18	1	Μ	(1825) Johann Jacob BALMER		IMO 1959 - 5
	2	Т	(1860) D`Arcy Wentworth THOMPSON (1905) Kazimierz ZARANKIEWITZ		An arbitary point M is taken in the interior
	3	W	(1842) Otto STOLZ		of the segment AB . Squares $AMCD$ and
	4	Т	(1860) Vito VOLTERRA (1845) William Kingdon CLIFFORD		MBEF are constructed on the same side of
	5	F	(1833) Lazarus Emmanuel FUCHS		AB . The circles circumscribed about these
	6	\mathbf{S}	(1897) Francesco Giacomo TRICOMI (1872) Willem DE SITTER		squares, with centers P and Q , intersect at
	_		(1906) Andre` VEIL		M and N .
	7	S	(1926) Alexis Claude CLAIRAUT (1854) Giuseppe VERONESE		(a) Prove that AF and BC intersect at
			(1881) Ebenezer CUNNINGHAM (1896) Pavel Sergieievich ALEXANDROV		N.
19	8	М	(1859) Johan Ludwig William Valdemar JENSEN	1	(b) prove that the lines MN pass through a
	9	Т	(1746) Gaspard MONGE (1876) Gilbert Ames BLISS		(b) prove that the lines $M(V)$ pass through a fixed point S (independent of M);
	10	W	(1788) Augustin Jean FRESNEL		(c) find the locus of the midpoints of the
			(1847) William Karl Joseph KHLING (1958) Piotr Rizierovich SILVERBRAHMS		segments PQ as M varies.
	11	Т	(1918) Richard Phillips FEYNMAN	1	
	12	F	(1845) Pierre Rene`Jean Baptiste Henry BROCARD (1902) Frank YATES	1	"The number you have dialed is imaginary. Please rotate your phone 90 degrees and try
	13	S	(1902) Frank TATES (1750) Lorenzo MASCHERONI	1	again."
	14	S	(1832) Rudolf Otto Sigismund LIPSCHITZ		Advertisement
20	15	M	(1863) John Charles FIELDS (1939) Brian HARTLEY	No.	Simanek Ideal Scientific Equipment
20	16	Т	(1718) Maria Gaetana AGNESI		Company
			(1821) Pafnuti Lvovi CHEBYSHEV	1	May Sale SPECIAL OFFER
	17	W	(1850) Oliver HEAVISIDE		Lab Music CD: Includes:
	18	T	(1892) Bertrand Arthur William RUSSELL		Harmoniae Mundi, b y J. Kepler Mysterium Cosmographicum by J. Kepler
	19	F	(1919) Georgii Dimitirievich SUVOROV	1	The Harmonic Oscillator, by E. Schrödinger
	20	S	(1861) Henry Seely WHITE (1471) Albrecht DURER	N	ONLY\$30.00 ea.
	21	S	(1771) Abreent DORING (1792) Gustave Gaspard de CORIOLIS		"Nature is not embarrassed by difficulties of
21	22	Μ	(1865) Alfred Cardew DIXON		analysis."
	23	T	(1914) Lipa BERS		Augustin Jean FRESNEL "Now one may ask, "What is mathematics
	24	W	(1000) K INCLU I DEMERICAN		doing in a physics lecture?" We have several
	25 26	T F	(1838) Karl Mikailovich PETERSON (1667) Abraham DE MOIVRE	4	possible excuses: first, of course, mathematics is an important tool, but that would only
		r	(1896) Yuri Dimitrievich SOKOLOV	1	excuse us for giving the formula in two
	27	S	(1862) John Edward CAMPBELL (1676) Jacopo Francesco RICCATI		minutes. On the other hand, in theoretical physics we discover that all our laws can be
	28	S	(1710) Johann (II) BERNOULLI		written in mathematical form; and that this
22	29	Μ	(1882) Harry BATEMAN		has a certain simplicity and beauty about it.
	30	Т	(1814) Eugene Charles CATALAN		But the real reason is that the subject is enjoyable, and although we humans cut nature
	31	W	(1926) John KEMENY		up in different ways, and we have different
					courses in different departments, such compartmentalization is really artificial, and
			'95 NO		we should take our intellectual pleasures where
					we find them."
					Richard Phillips FEYNMAN "To isolate mathematics from the practical
					demands of the sciences is to invite the sterility
					of a cow shut away from the bulls. "
					Pafnuti Lvovi CHEBYSHEV
					"Mathematics is veri much like poetry. What makes a great poem is tat there is a great

"Mathematics is veri much like poetry. What makes a great poem is tat there is a great amount of thought expressed in very few words. in this sense, formulas like $e^{\pi_i}+1=0$ are poems.

Lipa BERS

June

	22	1	Т	(1796) Sadi Leonard Nicolas CARNOT	IMO 1959 - 6
				(1851) Edward Bailey ELLIOTT (1899) Edward Charles TITCHMARSH	
		2	F	(1895) Tibor RADO`	The planes P and Q are not parallel. The
					point A lies in P but not Q , and the point
		3	S	(1659) David GREGORY	\tilde{C} lies in Q but not P . Construct points
		4	S	(1809) John Henry PRATT	
	23	5	Μ	(1814) Pierre LAurent WANTZEL (1819) John Couch ADAMS	$oldsymbol{B}$ in $oldsymbol{P}$ and $oldsymbol{D}$ in $oldsymbol{Q}$ such that the
		6	Т	(1436) Johann Muller REGIOMONTANUS	quadrilateral $ABCD$ satisfies the following
		-		(1857) Aleksandr Michailovitch LYAPUNOV (1906) Max ZORN	conditions:
		7	W	(1863) Edward Burr VAN VLECK	-(1) it lies in a plane,
		8	Т	(1625) Giovanni Domenico CASSINI	(2) the vertices are in the order
		0		(1858) Charlotte Angas SCOTT	A, B, C, D
			П	(1860) Alicia Boole STOTT	
		9	F	(1885) John Edensor LITTLEWOOD	(3) it is an isosceles trapezeoid with AB is
		10	\mathbf{S}	(940) Mohammad ABU`L WAFA Al-Buzjani (1887) Vladimir Ivanovich SMIRNOV	parallel to CD (meaning that
		11	\mathbf{S}	(1937) David Bryant MUMFORD	AD = BC, but AD is not parallel to
	24	12	M	(1888) Zygmunt JANYSZEWSKI	BC unless it is a square), and
		13	T	(1831) James Clerk MAXWELL	
		10	1	(1876) William Sealey GOSSET (Student)	(4) a circle can be inscribed in $ABCD$
		14	W	(1928) John Forbes NASH (1736) Charles Augustin de COULOMB	touching the sides.
		14	VV	(1856) Andrei Andreyevich MARKOV	The Ultimate Scientific Dictionary
				(1903) Alonzo CHURCH	Activation Energy: The useful quantity of
		15	Т	(1640) Bernard LAMY (1894) Nikolai Gregorievich CHEBOTARYOV	energy available in one cup of coffee.
		16	F	(1915) John Wilder TUKEY	Advertisement
		17	S	(1898) Maurits Cornelius ESCHER	Simanek Ideal Scientific Equipment
		18	S	(1858) Andrew Russell FORSYTH	Company
	0.7		1	(1884) Charles Ernest WEATHERBURN (1623) Blaise PASCAL	June Sale SPECIAL OFFER
	25	19	Μ	(1923) Wallace John ECKERT	From Our Bookstore: GEDANKEN
		20	Т	(1873) Alfred LOEWY	EXPERIMENTS. If your equipment budget
		21	W	(1781) Simeon Denis POISSON	just won't stretch enough to buy the
			T	(1828) Giuseppe BRUNO (1823) Mario PIERI	equipment for those experiments you've
		22	T	(1864) Hermann MINKOWSKY	dreamed up, then this book is just what you need. If you can think it, you can DO it.
,				(1910) Konrad ZUSE	Hardcover, 314 pages.
		23	\mathbf{F}	(1912) Alan Mathison TURING	ONLY\$29.95 plus \$3 shipping
		24	S	(1880) Oswald VEBLEN	"It can be of no practical use to know that π is
		25	S	(1908) William Van Orman QUINE	irrational, but if we can know, it surely would
	26	26	Μ	(1824) William THOMPSON, Lord Kelvin (1918) Yudell Leo LUKE	be intolerable not to know".
		27	Т	(1806) Augustus DE MORGAN	Edward Charles TICHMARSH
		 28	W	(1875) Henri Leon LEBESGUE	"What I give form to in daylight is only one per cent of what I have seen in darkness"
		20 29	T	(1888) Aleksandr Aleksandrovich FRIEDMANN	Maurits Cornelius ESCHER
		30	F	(1791) Felix SAVART	"The more I see of men, the better I like my
		50	Г		dog"
					Blaise PASCAL
					"Science is a differential equation. Religion is
					a boundary condition"
					Alan Mathison TURING
					"In my opinion, a mathematician, in so far as
					he is a mathematician, need not preoccupy
					himself with philosophy an opinion,
					moreover, which has been expressed by many philosophers "

Henri LEBESGUE

philosophers."

July

26	1	S	(1643) Gottfried Wilhelm von LEIBNIZ	ſ	
20			(1788) Jean Victor PONCELET (1820) William John Racquorn RANKINE		IMO 1960 - 1
	2	S	(1852) William BURNSIDE		Determine all 3 digit numbers N which are
27	3	Μ	(1807) Ernest Jean Philippe Fauque de JONQUIERE (1897) Jesse DOUGLAS		divisible by 11 and where $\frac{N}{N}$ is equal to the
	4	Т	(1906) Daniel Edwin RUTHERFORD		11
	F	W	(1917) Michail Samuilovich LIVSIC		sum of the squares of the digits of N
	5 6	vv T	(1849) Alfred Bray KEMPE		The Wonderful World of Chemistry
	7	F	(1816) Johann Rudolf WOLF		If you're not part of the solution, you're part of
	•	· ·	(1906) William FELLER (1922) Vladimir Aleksandrovich MARCHENKO		the precipitate
	8	S	(1760) Christian KRAMP		Advertisement
	9	S	(1845) George Howard DARWIN	1	Simanek Ideal Scientific Equipment
28	10	М	(1862) Roger COTES (1868) Oliver Dimon KELLOGG		Company
	11	Т	(1868) Onver Dinion RELLOGG (1857) Sir Joseph LARMOR		July Sale SPECIAL OFFER
			(1890) Giacomo ALBANESE (1875) Ernest Sigismund FISCHER		From Our Bookstore: PRACTICAL USE OF NULL HYPOTESES. This book is essential
	12	W	(1895) Richard BUCKMINSTER FULLER		for those theorists who never set foot in a
	13	Т	(1527) John DEE (1741) Karl Friedrich HINDENBURG		laboratory. Topics include "How to obfuscate eloquently", "Guaranteeing results", and
	14	F			"What to do when hypotheses lead nowhere.".
	15	S	(1865) Wilhelm WIRTINGER (1906) Adolph Andrej Pavlovich YUSHKEVICH		Hardcover, 410 pages.
	16	S	(1678) Jakob HERMANN	Sec. 1	ONLY\$49.95 plus \$4 shipping.
20		M	(1903) Irmgard FLUGGE LOTZ (1831) Victor Mayer Amedee` MANNHEIM	_	"When working on a problem, I never think
29	17	Μ	(1837) Wilhelm LEXIS	1	about beauty; I think only of how to solve the problem. But when I have finished, if the
	18	T	(1013) Hermann von REICHENAU (1635) Robert HOOKE		solution is not beautiful, I know that it is
			(1853) Hendrich Antoon LORENTZ		wrong." Richard Buckminster FULLER
	19 20	W	(1768) Francois Joseph SERVOIS		"There is (gentle reader) nothing (the works of
	$\frac{20}{21}$	F	(1620) Jean PICARD	7	God only set apart) which so much beautifies
	21		(1848) Emil WEYR (1849) Robert Simpson WOODWARD		and adorns the soul and mind of man as does knowledge of the good arts and sciences
	22	S	(1784) Friedrich Wilhelm BESSEL	-	Many arts there are which beautify the mind
	23	S _	(1775) Etienne Louis MALUS		of man; but of all none do more garnish and beautify it than those arts which are called
30	24	M	(1854) Ivan SLEZYNSKY (1851) Friedrich Herman SCHOTTKY		mathematical, unto the knowledge of which no
00	44	IVI	(1871) Paul EPSTEIN (1923) Christine Mary HAMILL	ø	man can attain, without perfect knowledge and instruction of the principles, grounds, and
	25	Т	(1808) Johann Benedict LISTING	1	Elements of Geometry."
	26	W	(1903) Kurt MAHLER		John DEE
	27	Т	(1667) Johann BERNOULLI		"CEHOSSOTTUU"
			(1801) George Biddel AIRY (1848) Lorand Baron von EOTVOS		Anagram to establish priority in the discovery of elasticity: "Ut tensio, sic uis"
		F	(1871) Ernst Friedrich Ferdinand ZERMELO		Robert HOOKE
	28 29	F S	(1954) Gerd FALTINGS		"[The infinitesimals] neither have nor can have
	29 30	s S			theory; in practise it is a dangerous instrument
31	31	M	(1704) Gabriel CRAMER	V	in the hands of beginners anticipating, for my part, the judgement of posterity, I would
<u> </u>	<u> </u>		(1712) Johann Samuel KOENIG		predict that this method will be accused one
					day, and rightly, of having retarded the progress of the mathematical sciences. "
					Francois Joseph SERVOIS
					"A quantity which is increased or decreased by
					an infinitely small quantity is neither increased nor decreased."
					increased nor decreased." Johann BERNOULLI
					Johanni DERIVOULLI

August

1				
	31	1	Т	(1861) Ivar Otto BENDIXSON (1881) Otto TOEPLITZ
		2	W	(1856) Ferdinand RUDIO (1902) Mina Spiegel REES
		3	Т	(1914) Mark KAC
		4	F	(1805) Sir William Rowan HAMILTON
		-	q	(1838) John VENN
		5	${f S}{f S}$	(1802) Niels Henrik ABEL (1638) Nicolas MALEBRANCHE
		6	ø	(1741) John WILSON
	32	7	M	(1868) Ladislaus Josephowitsch BORTKIEWITZ
		8	Т	(1902) Paul Adrien Maurice DIRAC
		9	W	(1537) Francesco BAROZZI (Franciscus Barocius)
		10	Т	(1602) Gilles Personne de ROBERVAL
		11	F	(1730) Charles BOSSUT (1842) Enrico D'OVIDIO
		12	\mathbf{S}	(1882) Jules Antoine RICHARD (1887) Erwin Rudolf Josef Alexander SCHRODINGER
		13	S	(1625) Erasmus BARTHOLIN (1819) George Gabriel STOKES
			- 87	(1861) Cesare BURALI-FORTI
	33	14	M	(1530) Giovanni Battista BENEDETTI (1842) Jean Gaston DARBOUX
				(1865) Guido CASTELNUOVO
		15	T	(1866) Charles Gustave Nicolas de la VALLEE` POUSSIN (1863) Aleksei Nikolaevich KBYLOV
		15	1	(1892) Louis Pierre Victor duc de BROGLIE
		16	W	(1901) Petr Sergeevich NOVIKOV (12773) Louis Beniamin FRANCOEUR
		17	T	(1821) Arthur CAYLEY (1601) Pierre de FERMAT
		18	F	(1685) Brook TAYLOR
		19	S	(1646) John FLAMSTEED
		1.52	1	(1739) Georg Simon KLUGEL (1710) Thomas SIMPSON
		20	S	(1863) Corrado SEGRE
		01		(1882) Waclav SIERPINSKI
	34	21	M	(1789) Augustin Louis CAUCHY
		22	T W	(1647) Denis PAPIN (1683) Giovanni POLENI
1		23		(1829) Moritz Benedikt CANTOR
		24	Т	(1561) Bartholomeo PITISCUS (1942) Karen Keskulla UHLENBECK
		25	F	(1561) Philip van LANSBERGE
		26	S	(1844) Thomas MUIR (1728) Johann Heinrich LAMBERT
				(1875) Giuseppe VITALI
		27	S	(1858) Giuseppe PEANO
	35	28	M	(1796) Irenee Jules BIENAYME
		29	T	(1904) Leonard ROTH (1856) Carle David Tolme` RUNGE
		30	W	(1856) Carle David Tolme RUNGE (1906) Olga TAUSSKY-TODD
		31	Т	(1821) Hermann Ludwig Ferdinand von HELMHOLTZ

IMO 1960 - 2 For what real values of X does the following inequality hold: $4x^2$ $\frac{1}{\sqrt{1+2x}}^2 < 2x+9?$ The Wonderful World of Chemistry When you smell an odorless gas, it is probably carbon monoxide Advertisement Simanek Ideal Scientific Equipment Company August Sale SPECIAL OFFER From Our Bookstore: Forthcoming Titles Properties and Practical Applications of the Null Set. The Shape of Geometric Points. The Null Vector, What's Its Point? "The whole form of mathematical thinking was created by Euler. It is only with the greatest of difficulty that one is able to follow the writings of any author preceding Euler, because it was not yet known how to let the formulas speak for themselves. This art Euler was the first to teach." Ferdinand RUDIO "There are surely worse things than being wrong, and being dull and pedantic are surely among them." Mark KAC "This result is too beautiful to be false; it is more important to have beauty in one's equations than to have them fit experiment. " Paul Adrien Maurice DIRAC "And perhaps, posterity will thank me for having shown it that the ancients did not know everything. "-Pierre de FERMAT "Cubum cubos, autem autinduosquadratoquadratum in duosquadratoquadratos, et generaliter nullam in infinitum ultra quadratum potestatem in duos ejusdem nominis fas est dividere: cujus rei demonstrationem mirabilem sane detexi. Hanc marginis exiguitas non caperet" Pierre de FERMAT "Newton is, of course, the greatest of all Cambridge professors; he also happens to be the greatest disaster that ever befell not merely Cambridge mathematics in particular, but British mathematical science as a whole"

Leonard ROTH

September

	35	1	\mathbf{F}	(1659) Joseph SAURIN (1835) William Stankey JEVONS	IN	IO 1960 - 3
		2	\mathbf{S}	(1878) Mauriche Rene` FRECHET	In	a given right triangle ABC , the
		3	\mathbf{S}	(1923) Rene`THOM (1814) James Joseph SYLVESTER		poteneuse BC , length a , is divided into
		0	b	(1884) Solomon LEFSCHETZ (1908) Lev Semenovich PONTRYAGIN		equal parts with n an odd integer. The
	36	4	Μ	(1908) Lev Semenovich PONTRTAGIN (1809) Luigi Federico MENABREA	ce	ntral part subtends an angle $lpha$ at A . h
	00	5	Т	(1667) Giovanni Girolamo SACCHERI	is	the perpendicular distance from $oldsymbol{A}$ to
		6	W	(1725) Jean Etienne MONTUCLA (1859) Boris Jakovlevich BUKREEV	B	C . Prove that:
		0		(1863) Dimitri Aleksandrovich GRAVE		4nh
		7	Т	(1707) George Louis Leclerc comte de BUFFON (1955) Efim ZELMANOV		$\tan \alpha = \frac{1}{an^2 - a}$
		8	F	(1584) Gregorius SAINT VINCENT (1588) Marin MERSENNE	1	
		9	S	(1960) Frank MORLEY		ath is <mark>like love</mark> – a simple idea but it can get mplicated.
		10	S	(1839) Charles Sanders PEIRCE	No.	Advertisement
	37	11	Μ	(1623) Stefano degli ANGELI	c	
		12	Т	(1877) sir James Hopwood JEANS (1891) Antoine Andre` Louis REYNAUD		Simanek Ideal Scientific Equipment Company
			- 87	(1900) Haskell Brooks CURRY (1873) Constantin CARATHEODORY		September Sale SPECIAL OFFER
		13	W	(1885) Wilhelm Johann Eugen BLASCHKE		OINT PARTICLES: Another "must" for
		14	Т	(1858) Henry Burchard FINE (1891) Ivan Matveevich VINOGRADOV		oper mechanics demonstrations! ISE point-
		15	F	(973) Abu Arrayhan Muhammad ibn Ahmad AL`BIRUNI		rticles (integral numbers of grams), are ailable in all masses from 1g to 10kg. Buy
		16	S	(1886) Paul Pierre LEVY (1494) Francisco MAUROLICO	th	e 10kg box and SAVE!
		1		(1736) Johann Nikolaus TETENS (1743) Marie Jean Antoine Nicolas de Caritat de CONDORCET	5	ONLY\$ 11.65/10 Kg
		17	S	(143) Marie Jean Antonie Micolas de Caritat de CONDORCET (1826) Georg Friedrich Bernhard RIEMANN		h <mark>e importance of the "New Mathem</mark> atics" lies
	38	18	Μ	(1752) Adrien Marie LEGENDRE		ainly in the fact that it has taught us the fference between the disc and the circle."
		19	T	(1749) Jean Baptiste DELAMBRE (1842) Alexander Wilhelm von BRILL	1	Rene' THOM
		20	W	(1861) Frank Nelson COLE		<mark>f it's just turnin</mark> g the crank it <mark>'s alg</mark> ebra, but if
		21	Т	(1899) Juliusz Pawel SCHAUDER	it'.	s got an idea in it, it's topology."
		22	F	(1765) Paolo RUFFINI (1769) Louis PUISSANT	"7	Solomon LEFSCHETZ <i>his branch of mathematics</i> [Probability] is
				(1803) Jaques Charles Francois STURM (1768) William WALLACE		e only one, I believe, in which good writers
,		23	S	(1900) David van DANTZIG		equently get results which are entirely roneous."
		24	S	(1501) Girolamo CARDANO (1625) Johan DE WITT	eri	Charles Sanders PEIRCE
((1801) Michail Vasilevich OSTROGRADSKI (1819) George SALMON	"И	Ve may as well cut out the group theory. That
	39	25	М	(1888) Stefan MAZURKIEWICZ	is	a subject that will never be of any use in
		26	Т	(1688) Willem Jakob `s GRAVESANDE (1854) Percy Alexander MACMAHON	pn	sir James Hopwood JEANS
				(1891) Hans REICHENBACH	"1	error is corrected whenever it is recognised,
		27	W	(1855) Paul Emile APPEL (1876) Earle Raymond HEDRICK		e path of error is the path of truth."
			T	(1919) James Hardy WILKINSON (1698) Pierre Louis Moreau de MAUPERTUIS		Hans REICHENBACH
		28	Т	(1761) Ferdinand Francois Desire` Budan de BOISLAURENT		pon proving that the best betting strategy
		29	F	(1873) Julian Lowell COOLIDGE (1561) Adriaan van ROOMEN		r "Gambler's Ruin" was to bet all on the first al.]
				(1812) Adolph GOPEL		t is true that a man who does this is a fool. I
		30	\mathbf{S}	(1775) Robert ADRAIN (1829) Joseph WOLSTENHOLME		we only proved that a man who does aything else is an even bigger fool."
				(1883) Ernst HELLINGER		Julian Lowell COOLIDGE
					L	

October

	-	~	(1071) Luizi Cuile CDANDI	1	
39	1	\mathbf{S}	(1671) Luigi Guido GRANDI (1898) Bela KEREKJARTO`		IMO 1960 - 4
40	2	Μ	(1825) John James WALKER (1908) Arthur ERDELYI		Construct a triangle ABC given the lengths
	3	Т	(1944) Pierre Rene` DELIGNE	1	of the altitudes from A and B and the
	4	W	(1759) Louis Francois Antoine ARBOGAST (1797) Jerome SAVARY		length of the median from A .
	5	Т	(1732) Nevil MASKELYNE (1781) Bernhard Placidus Johann Nepomuk BOLZANO		If it wasn't for T. A. Edison, we'd all be watching TV to the light of a candle.
	6	F	(1861) Thomas Little HEATH (1552) Matteo RICCI		Advertisement
	U	г	(1831) Julius Wilhelm Richard DEDEKIND (1908) Sergei Lvovich SOBOLEY		Simanek Ideal Scientific Equipment
	7	S	(1885) Niels BOHR	1	Company October Sale SPECIAL OFFER
	8	S	(1908) Hans Arnold HEILBRONN	1	HYDRODYNAMICAL FLUID: We are the
41	9	М	(1581) Claude Gaspard BACHET de Meziriac (1704) Johann Andrea von SEGNER (1873) Karl SCHWARTZSCHILD		sole supplier of this unique product (made by us under licence granted by Bernoulli
	10	Т	(1861) Heinrich Friedrich Karl Ludwig BURKHARDT		International). Completely free of viscosity
	11	W	(1675) Samuel CLARKE		and totally incompressible, it is otherwise indistinguishable from ordinary water.
		1	(1777) Barnabe` BRISSON (1885) Alfred HAAR	1	ONLY \$85/liter
	10	m	(1910) Cahit ARF	-	"An expert is a man who has made all the
	12 13	F	(1860) Elmer SPERRY (1890) Georg FEIGL	10	<i>mistakes which can be made in a very narrow</i>
	13	D	(1893) Kurt Werner Friedrich REIDEMEISTER (1932) John Griggs THOMSON	-	field" Niels BOHR
	14	S	(1687) Robert SIMSON (1801) Joseph Antoine Ferdinand PLATEAU (1868) Alessandro PADOA		" $2^{30}(2^{31}-1)$ is the greatest perfect number that will ever be discovered, for, as they are merely
	15	S	(1608) Evangelista TORRICELLI		curious without being useful, it is not likely
		T	(1735) Jesse RAMSDEN (1776) Peter BARLOW		that any person will attempt to find a number beyond it"
42	16	M	(1879) Philip Edward Bertrand JOURDAIN	Ν	Peter BARLOW
	17	Ţ	(1759) Jacob (II) BERNOULLI (1888) Paul Isaac BERNAYS	N	"The Council of the Royal Society is a
	18	W	(1741) John WILSON		collection of men who elect each other to office
	19	T	(1903) Jean Frederic Auguste DELSARTE		and then dine together at the expense of this society to praise each other over wine and give
	20	F	(1910) Subrahmanyan CHANDRASEKHAR (1632) Sir Cristopher WREN		each other medals."
	-	5.4	(1863) William Henry YOUNG (1865) Aleksandr Petrovich KOTELNIKOV		Charles BABBAGE
	21	S	(1677) Nicolaus (I) BERNOULLI		"Unfortunately what is little recognized is that the most worthwhile scientific books are those
			(1823) Enrico BETTI (1855) Giovan Battista GUCCIA	1	in which the author clearly indicates what he
S	22	C	(1893) William LEonard FERRAR (1587) Joachim JUNGIUS	1	does not know; for an author most hurts his readers by concealing difficulties."
	22	ð	(1895) Rolf Herman NEVANLINNA		Evariste GALOIS
43	23	М	(1907) Sarvadaman CHOWLA (1865) Piers BOHL	-	"It is true that a mathematician who is not
10	20	T	(1804) Wilhelm Eduard WEBER		also something of a poet will never be a perfect mathematician."
			(1873) Edmund Taylor WITTAKER		Karl Theodor Wilhelm WEIERSTRASS
	$\frac{25}{26}$	W T	(1811) Evariste GALOIS (1849) Ferdinand Georg FROBENIUS		
	20	T	(1857) Charles Max MASON (1911) Shiing-Shen CHERN		
	27	\mathbf{F}	(1678) Pierre Remond de MONTMORT		
		s	(1856) Ernest William HOBSON (1804) Pierre Francois VERHULST		
	28 29	5 S	(1804) Pierre Francois VERHULST (1925) Klaus ROTH		-
44	<u>29</u> 30	M	(1925) Klaus KOTH (1906) Andrej Nikolaevich TIKHONOV	1	
	31	Т	(1805) Hindly Hindle Ven Hindle Ven (1815) Karl Theodor Wilhelm WEIERSTRASS	-	

November

			1	-	
44	1	W	(1535) Giambattista DELLA PORTA		IMO 1960 - 5
	2	Т	(1815) George BOOLE		The cube $ABCDA'B'C'D'$ has A
	3	\mathbf{F}	(1867) Martin Wilhelm KUTTA (1878) Arthur Byron COBLE		above A' , B above B' and so on. X
	4	\mathbf{S}	(1744) Johann (III) BERNOULLI		is any point of the face diagonal AC
	F	q	(1865) Pierre Simon GIRARD (1848) James Whitbread Lee GLAISHER		and Y is any point of $B'D'$.
	5	\mathbf{S}	(1930) John Frank ADAMS		
45	6	Μ	(1781) Giovanni Antonio Amedeo PLANA		(a) find the locus of the midpoint of XY:
	7	Т	(1660) Thomas Fantet DE LAGNY (1799) Karl Heinrich GRAFFE	1	
	4		(1898) Raphael SALEM		(b) find the locus of the point Z
	8	W	(1656) Edmond HALLEY (1846) Eugenio BERTINI		which lies one-third of the way
			(1848) Fredrich Ludwig Gottleb FREGE	1	along XY , so that $ZY = 2XZ$.
			(1854) Johannes Robert RYDBERG (1869) Felix HAUSDORFF		Q: What's the difference between a
	9	Т	(1847) Carlo Alberto CASTIGLIANO		mathematician and a physicist?
			(1885) Theodor Franz Eduard KALUZA (1885) Hermann Klaus Hugo WEYL		A: A mathematician thinks that two points are enough to define a straight line while a
			(1906) Jaroslav Borisovich LOPATYNSKY		physicist wants more data
	10	F	(1922) Imre LAKATOS (1829) Helwin Bruno CHRISTOFFEL	1	Advertisement
	11	S	(1904) John Henry Constantine WHITEHEAD	-	
	12	S	(1825) Michail Egorovich VASHCHENKO-ZAKHARCHENKO	10	Simanek Ideal Scientific Equipment
		-	(1842) John William STRUTT Lord RAYLEIGH (1927) Yutaka TANIYAMA		November Sale SPECIAL OFFER
46	13	M	(1876) Ernest Julius WILKZYNSKY		RIGID BODIES: Have you ever had a
10			(1878) Max Wilhelm DEHN		demonstration fail due to non-rigidity of an
	14	T	(1845) Ulisse DINI (1688) Louis Bertrand CASTEL		essential part of your apparatus? This can be
	15	W	(1793) Michel CHASLES		both frustrating and embarrassing, but is it a soluble problem! An ISE rigid body NEVER
	10	-	(1794) Franz Adolph TAURINUS		flexes! We can cut and machine this material
	16	T	(1835) Eugenio BELTRAMI (1597) Henry GELLIBRAND	3	to any desired specifications. Specify precise dimensions when requesting an estimate.
	17	P	(1717) Jean Le Rond D'ALEMBERT	1	ONLY CALL!
	18	S	(1790) August Ferdinand MOBIUS (1872) Giovanni Enrico Eugenio VACCA	ŀ	
		1	(1927) Jon Leslie BRITTON		"Of the many forms of false culture, a premature converse with abstractions is
	19	S	(1894) Heinz HOPF (1900) Michail Alekseevich LAVRENTEV		perhaps the most likely to prove fatal to the
			(1901) Nina Karlovna BARI	_	growth of a masculine vigour of intellect."
47	20	M	(1889) Edwin Powell HUBBLE (1924) Benoit MANDELBROT	-	George BOOLE
	21	Т	(1867) Dimitri SINTSOV	1	"A scientist can hardly meet with anything more undesirable than to have the foundations
	22	W	(1803) Giusto BELLAVITIS		give way just as the work is finished. I was put
	23	Т	(1840) Emile Michel Hyacinte LEMOINE (1616) John WALLIS		in this position by a letter from Mr. Bertrand Russell when the work was nearly through the
			(1820) Issac TODHUNTER (1549) Duncan MacLaren Young SOMERVILLE		press."
	24	F	(1909) Gerhard GENTZEN		Fredrich Ludwig Gottlob FREGE
	25	\mathbf{S}	(1873) Claude Louis MATHIEU (1841) Fredrich Wilhelm Karl Ernst SCHRODER		" Logic is the hygiene the mathematician
	26	\mathbf{S}	(1894) Norbert WIENER		practices to keep his ideas healthy and strong."
40			(1946) Enrico BOMBIERI		Hermann Klaus Hugo WEYL
48	27	M	(1867) Arthur Lee DIXON		" The British Mathematical Colloquium consists of three days of mathematics with no
	28	T	(1898) John WISHART (1803) Christian Andreas DOPPLER		dogs and no wives"
	29	W	(1849) Horace LAMB		John Henry Constantine WHITEHEAD
	90	т	(1879) Nikolay Mitrofanovich KRYLOV		" The modern physicist is a quantum theorist
	30	Т	(1549) Sir Henry SAVILE		on Monday, Wednesday, and Friday and a
					student of gravitational relativity theory on Tuesday, Thursday, and Saturday. On Sunday
					he is neither, but is praying to his God that
					someone, preferably himself, will find the reconciliation between the two views. "
					Benoit MANDELBROT
				L	Denoit WANDELDRUT

December

	10	-	T	
	48	1	F	(1792) Nikolay Yvanovich LOBACHEVSKY
		2	\mathbf{S}	(1831) Paul David Gustav DU BOIS-RAYMOND (1901) George Frederick James TEMPLE
		3	\mathbf{S}	(1903) Sidney GOLDSTEIN
		0		(1924) John BACKUS
	49	4	Μ	(1795) Thomas CARLYLE
		5	Т	(1868) Arnold Johannes Wilhelm SOMMERFELD (1901) Werner Karl HEISENBERG
		6	W	(1682) Giulio Carlo FAGNANO dei Toschi
		7	Т	(1662) Giano Carlo Liferantico del Toschi (1647) Giovanni CEVA
		'	1	(1823) Leopold KRONECKER
		0	П	(1830) Antonio Luigi Gaudenzio Giuseppe CREMONA (1508) Regnier GEMMA FRISIUS
		8	F	(1865) Jaques Salomon HADAMARD
				(1919) Julia Bowman ROBINSON
		9	S	(1883) Nikolai Nikolaievich LUZIN (1906) Grace Brewster MURRAY HOPPER
				(1917) Sergei Vasilovich FOMIN
		10	\mathbf{S}	(1804) Karl Gustav Jacob JACOBI (1815) Augusta Ada KING Countess of LOVELACE
	50	11	M	(1882) Max BORN
	00	12	T	(1832) Peter Ludwig Mejdell SYLOW
		13	w	(1724) Franz Ulrich Theodosius AEPINUS
		10	9 6	(1887) George POLYA
		14	T	(1546) Tycho BRAHE
		15	F	(1802) Janos BOLYAI
		16	S	(1804) Wiktor Yakovievich BUN YAKOWSKY
		17	S	(1706) Gabrielle Emile Le Tonnelier de Breteuil du CHATELET (1835) Felice CASORATI
			1	(1835) Feile CASONATI (1842) Marius Sophus LIE
			953	(1900) Dame Mary Lucy CARTWRIGHT
	51	18	/M	(1917) Roger LYNDON
		19	Т	(1783) Charles Julien BRIANCHON (1854) Marcel Louis BRILLOUIN
		20	W	(1494) Oronce FINE
				(1648) Tommaso CEVA (1875) Francesco Paolo CANTELLI
		21	T	(1878) Jan LUKASIEVIKZ
				(1932) John Robert RINGROSE
,		22	F	(1824) Francesco BRIOSCHI (1859) Otto Ludwig HOLDER
				(1877) Tommaso BOGGIO
			d	(1887) Srinivasa Aiyangar RAMANUJAN
		23	S	(1872) Georgii Yurii PFEIFFER (1822) Charles HERMITE
		24	\mathbf{S}	(1822) Charles HERMITE (1868) Emmanuel LASKER
	52	25	Μ	(1642) Isaac NEWTON
		26	Т	(1900) Antoni ZYGMUND (1780) Mary Fairfax Greig SOMERVILLE
		20		(1791) Charles BABBAGE
		27	W	(1571) Johannes KEPLER (1654) Jacob (Jacques) BERNOULLI
		28	Т	(1808) Athanase Louis Victoire DUPRE`
		-0	1	(1882) Arthur Stanley EDDINGTON
		29	F	(1903) John von NEUMANN (1856) Thomas Jan STIELTJES
		29 30	S	(1897) Stanislaw SAKS
		30 31	S	(1872) Volodymyr LEVIYTSKY
		91	0	(1896) Carl Ludwig SIEGEL
				(1952) Vaughan Frederick Randall JONES

IMO 1960 - 6

