

# Decode the Joke

## Factors, Multiples, Primes

Write down the value for each of the letters of the alphabet.

<b>A</b>	The 2 <sup>nd</sup> multiple of 5	10
<b>B</b>	The missing multiple of 3: 3, 6, 9, __, 15, 18,..	12
<b>C</b>	The 1 <sup>st</sup> multiple of 15	15
<b>D</b>	The missing multiple of 2: 2, 4, 6, 8, 10, 12, __,..	14
<b>E</b>	The 1 <sup>st</sup> prime number	2
<b>F</b>	The 4 <sup>th</sup> multiple of 8	32
<b>G</b>	The missing factor of 18: 1, 2, 3, 6, __, 18	9
<b>H</b>	The 3 <sup>rd</sup> prime number	5
<b>I</b>	The smallest factor of 20	1
<b>J</b>	The 5 <sup>th</sup> multiple of 9	45
<b>K</b>	The smallest two-digit prime number	11
<b>L</b>	The biggest factor of 8	8
<b>M</b>	The prime number closest to 20	19

<b>N</b>	The smallest prime number greater than 30	31
<b>O</b>	The biggest factor of 40	40
<b>P</b>	The 4 <sup>th</sup> multiple of 12	48
<b>Q</b>	The number of factors of 12	6
<b>R</b>	The biggest one-digit prime number	7
<b>S</b>	The next prime number after 13	17
<b>T</b>	The sum of the first three multiples of 5	30
<b>U</b>	The missing factor of 24: 1, 2, 3, __, 6, 8, 12, 24	4
<b>V</b>	The smallest odd prime number	3
<b>W</b>	The sum of the first five multiples of 7	105
<b>X</b>	The sum of all the factors of 15	24
<b>Y</b>	The missing factor of 32: 1, 2, 4, 8, __, 32	16
<b>Z</b>	The biggest factor of 39 that is a prime number	13

Now decode the joke...

105	5	16		14	40		19	10	30	5	17		30	2
W	H	Y		D	O		M	A	T	H	S		T	E

10	15	5	2	7	17		105	2	10	7		9	8	10
A	C	H	E	R	S		W	E	A	R		G	L	A

17	17	2	17	?		1	30		1	19	48	7	40	3
S	S	E	S	?		I	T		I	M	P	R	O	V

2	17		14	1	3	1	17	1	40	31	!			
E	S		D	I	V	I	S	I	O	N	!			