**Factors, Multiples and Primes**

**Decode the Maths Joke**

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **A** | The 2nd multiple of 5 |  |  | **N** | The smallest prime number greater than 30 |  |
| **B** | The missing multiple of 3:3, 6, 9, \_\_, 15, 18,.. |  |  | **O** | The biggest factor of 40 |  |
| **C** | The 1st multiple of 15 |  |  | **P** | The 4th multiple of 12 |  |
| **D** | The missing multiple of 2:2, 4, 6, 8, 10, 12, \_\_,.. |  |  | **Q** | The number of factors of 12  |  |
| **E** | The 1st prime number |  |  | **R** | The biggest one-digit prime number |  |
| **F** | The 4th multiple of 8 |  |  | **S** | The next prime number after 13 |  |
| **G** | The missing factor of 18:1, 2, 3, 6, \_\_, 18 |  |  | **T** | The sum of the first three multiples of 5 |  |
| **H** | The 3rd prime number |  |  | **U** | The missing factor of 24:1, 2, 3, \_\_, 6, 8, 12, 24 |  |
| **I** | The smallest factor of 20 |  |  | **V** | The smallest odd prime number |  |
| **J** | The 5th multiple of 9 |  |  | **W** | The sum of the first five multiples of 7 |  |
| **K** | The smallest two-digit prime number |  |  | **X** | The sum of all the factors of 15 |  |
| **L** | The biggest factor of 8 |  |  | **Y** | The missing factor of 32:1, 2, 4, 8, \_\_, 32 |  |
| **M** | The prime number closest to 20 |  |  | **Z** | The biggest factor of 39 that is a prime number |  |

Now decode the joke….

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 105 | 5 | 16 |  | 14 | 40 |  | 19 | 10 | 30 | 5 | 17 |  | 30 | 2 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 15 | 5 | 2 | 7 | 17 |  | 105 | 2 | 10 | 7 |  | 9 | 8 | 10 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | 17 | 2 | 17 | ? |  | 1 | 30 |  | 1 | 19 | 48 | 7 | 40 | 3 |
|  |  |  |  | ? |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 17 |  | 14 | 1 | 3 | 1 | 17 | 1 | 40 | 31 | ! |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | ! |  |  |  |