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| --- | --- |
| **Decode the Joke** | **Squares, Cubes and Roots** |

Calculate a value for each of the letters of the alphabet.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **A** | $$3^{2}$$ |  |  | **N** | $$\sqrt[3]{216}$$ |  |
| **B** | $$\sqrt{100}$$ |  |  | **O** | $$15^{2}$$ |  |
| **C** | $$2^{3}$$ |  |  | **P** | $$8^{3}$$ |  |
| **D** | $$8^{2}$$ |  |  | **Q** | $$(-10)^{2}$$ |  |
| **E** | $$\sqrt{121}$$ |  |  | **R** | $$(-3)^{3}$$ |  |
| **F** | $$\sqrt[3]{27}$$ |  |  | **S** | $$4^{2}+2^{3}$$ |  |
| **G** | $$5^{3}$$ |  |  | **T** | $$\sqrt[3]{-8}$$ |  |
| **H** | $$9^{2}$$ |  |  | **U** | $$6^{2}-\sqrt[3]{64}$$ |  |
| **I** | $$\sqrt{49}$$ |  |  | **V** | $$\sqrt{25}×3^{2}$$ |  |
| **J** | $$13^{2}$$ |  |  | **W** | $$(-5)^{3}+10^{2}$$ |  |
| **K** | $$\sqrt[3]{64}$$ |  |  | **X** | $$14^{2}-\sqrt{16}$$ |  |
| **L** | $$7^{3}$$ |  |  | **Y** | $$10^{3}-(-20)^{2}$$ |  |
| **M** | $$\sqrt{25}$$ |  |  | **Z** | $$\sqrt[3]{-8×2^{3}}$$ |  |

Now decode the joke….

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| -25 | 81 | 9 | -2 |  | 64 | 7 | 64 |  | -2 | 81 | 11 |  | 8 | 9 | 343 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 32 | 343 | 9 | -2 | 225 | -27 |  | 24 | 9 | 600 |  | -2 | 225 |  | -2 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| 81 | 11 |  | 24 | -2 | 32 | 64 | 11 | 6 | -2 | ? |  | 600 | 225 | 32 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 9 | 6 |  | 8 | 225 | 32 | 6 | -2 |  | 225 | 6 |  | 5 | 11 | ! |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |