**Upper and Lower Bounds**

**Decode the Maths Joke**

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

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| --- | --- | --- | --- | --- | --- | --- |
| **A** | LB of 70 to the nearest ten |  |  | **N** | LB of 90 to 1 significant figure |  |
| **B** | UB of 8 to the nearest integer |  |  | **O** | UB of 32 to 2 significant figures |  |
| **C** | LB of 600 to the nearest hundred |  |  | **P** | UB of 70 to the nearest ten |  |
| **D** | UB of 14 to the nearest integer |  |  | **Q** | UB of 6.12 to 2 decimal places |  |
| **E** | UB of 120 to the nearest ten |  |  | **R** | UB of 18 to the nearest integer |  |
| **F** | LB of 9.3 to 1 decimal place |  |  | **S** | LB of 10 to 2 significant figures |  |
| **G** | UB of 50 to 1 significant figure |  |  | **T** | LB of 4.7 to 2 significant figures |  |
| **H** | LB of 3.3 to 1 decimal place |  |  | **U** | LB of 8 to the nearest integer |  |
| **I** | UB of 900 to the nearest hundred |  |  | **V** | LB of 240 to the nearest ten |  |
| **J** | LB of 0.5 to 1 significant figure |  |  | **W** | UB of 4 to 1 significant figure |  |
| **K** | LB of 4 to 1 significant figure |  |  | **X** | LB of 25 to the nearest 5 |  |
| **L** | UB of 75 to the nearest 5 |  |  | **Y** | UB of 9.3 to 1 decimal place |  |
| **M** | LB of 0.87 to 2 decimal places |  |  | **Z** | UB of 9.29 to 2 decimal places |  |

Now decode the joke….

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4.5 | 3.25 | 65 | 4.65 |  | 14.5 | 32.5 |  | 9.35 | 32.5 | 7.5 |  | 550 | 65 | 77.5 | 77.5 |
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| 4.65 | 4.5 | 32.5 |  | 14.5 | 7.5 | 14.5 | 125 | 9.95 |  | 4.5 | 3.25 | 32.5 |  | 77.5 | 32.5 | 235 |
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| 125 |  | 0.865 | 65 | 4.65 | 3.25 | 9.95 | ? |  | 65 | 77.5 | 55 | 125 | 8.5 | 18.5 | 32.5 | 9.95 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |