MNU 4-01a   Homework 3   Gold Level

Outcome 1

Tolerance Values

For each of the following tolerances, write down the minimum (min) and maximum (max) allowable sizes…

1 (30 ± 10%) m   **2** (94 ± 50%) cm

3 (72 ± 25%) mm   **4** (80 ± 1%) km

5 (40 ± 90%) kg   **6** (150 ± 20%) ml

7 (200 ± 5%) g   **8** (40 ± 15%)°C

Outcome 2

Tolerance Notation

1 A tolerance is given as (……… ± 1·8) m. The minimum value allowed is 25·3 m. What must the maximum value be?

2 A tolerance is given as (……… ± 6·39) km. The minimum value allowed is 62·87 km. What must the maximum value be?

3 A tolerance is given as (……… ± 0·7) secs. The maximum value allowed is 58·2 secs. What must the minimum value be?

4 A tolerance is given as (……… ± 5·28) kg. The maximum value allowed is 94·62 kg. What must the minimum value be?