

The skills in this series of exercises appear frequently.

These are the GIFTS you must take to succeed.



Geometry and Measure Unit

Exercise 1

Tolerance (Non-Calculator)

Calculate the upper and lower limit for each:

1. $25.4 \text{ cm} \pm 2 \text{ mm}$

2. $3.6 \text{ m} \pm 5 \text{ cm}$

3. $13.1 \text{ cm} \pm 3 \text{ mm}$

4. $17.7 \text{ kg} \pm 1.3 \text{ kg}$

5. $36.8 \text{ }^\circ\text{C} \pm 0.4\text{ }^\circ\text{C}$

6. $673 \text{ mm} \pm 17 \text{ mm}$

7. $3.2 \text{ cm} \pm 10\%$

8. $500 \text{ g} \pm 5\%$

9. $19.6 \text{ cm} \pm 10\%$

10. $700 \text{ mm} \pm 3\%$

Applying Question

A Christmas Advent calendar has 24 doors with chocolate behind.



Galaxy will reject chocolates if they do not weigh $4.2 \text{ g} \pm 5\%$.

The weights, in grams, of 20 chocolates are shown:

4.21, 3.95, 4.15, 4.37, 4, 4.07, 4.5, 3.98, 4.25, 4.39

4.3, 3.9, 4.02, 4.43, 4.36, 4.18, 4.05, 3.99, 4.27, 4.42

Calculate the percentage of chocolates that are rejected.