Answer on Question #83081 - Chemistry - General Chemistry

Question:

Which of the following has/have mistakes in the expression of the value/uncertainty?

Select one or more:

1. A volume of petrol = 621 ± 30 mL

2. A speed = 12.6 ± 0.5 m/s

3. A refractive index of glass = 1.5321 ± 0.00125

4. A distance = 10.15 ± 0.03 m

Solution:

The value have mistakes is 3. A refractive index of glass = 1.5321 ± 0.00125;

Correct answer is a refractive index of glass = 1.5321 ± 0.0012

Answer: 3. A refractive index of glass = 1.5321 ± 0.00125.