ALBERTA MATH 30-3 · UNIT 1 · 5 QUESTIONS

Precision, Accuracy and Tolerance — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Laboratory balance scale with a glass draft shield on a bench. A bag of potatoes has a true mass of 2.00 kg. Which of the following scale readings for the bag is the most accurate?**



A 2.40 kg

B 1.85 kg

C 2.15 kg

D 1.99 kg

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2 **A stopwatch displays times to the nearest hundredth of a second. The precision of the stopwatch is**

- **A** 0.01 s
- **B** 0.1 s
- **C** 1 s
- **D** 0.001 s

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3 **A carpenter cuts a stud to a length of 36 in. with a tolerance of $\pm \frac{1}{4}$ in. The acceptable range of lengths for the stud is**

- **A** 35 in. to 37 in.
- **B** $35\frac{1}{2}$ in. to $36\frac{1}{2}$ in.
- **C** $35\frac{3}{4}$ in. to $36\frac{1}{4}$ in.
- **D** 36 in. to $36\frac{1}{4}$ in.

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4 **A surveyor records a distance of 105.603 m. The number of decimal places in this measurement is**

- **A** 6
- **B** 3
- **C** 5
- **D** 2

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5 **A metal plate must have a thickness between 4.8 mm and 5.2 mm. A plate is measured and found to be 4.75 mm thick. The plate is**

- **A** acceptable, because 4.75 mm is between 4.8 mm and 5.2 mm
- **B** acceptable, because it is only slightly below the target of 5.0 mm
- **C** not acceptable, because it is thicker than the maximum of 5.2 mm
- **D** not acceptable, because it is thinner than the minimum of 4.8 mm

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ANSWER KEY

1. D
2. A
3. C
4. B
5. D

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