## Precision is

## Tolerance is

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ExamView

A kitten weighs 2.256 lbs. Which of the following measurements is the most accurate?

a. 2.365 lbs

c. 2.19 lbs

b. 2.2 lbs

d. 2.4 lbs



the specified tolerance?

a. Both the 109.4 and 110.6 cm shelves.

b. Only the 109.4 cm shelf 109.6 cm, 109.8 cm, 109.4 cm, 110.3 cm, and 110.6 cm. Which, if any, of the shelves are not within cm, with a tolerance of 0.5 cm ( $110 \text{ cm} \pm 0.5 \text{ cm}$ ). A set of six shelves had lengths of 109.9 cm, A company sells furniture for home assembly. Their largest bookcase has shelves that should be 110

- c. All of the shelves are within the tolerance.d. Only the 110.6 cm shelf

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ExamView

Perform the indicated operation. Write the answer with the correct number of significant digits.

 $683.15 \text{ m} \times 65.9 \text{ m}$ 

a. 45800 m<sup>2</sup>
 b. 45000 m<sup>2</sup>

c. 45023 m<sup>2</sup>
 d. 45020 m<sup>2</sup>

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Perform the indicated operation. Write the answer with the correct number of significant digits.

 $758.0 \text{ m}^2 \div 301.85 \text{ m}$ 

2.51118 m  $2.51 \mathrm{m}$ 

 $2.511\,\mathrm{m}$ 2.5112 m

Topic: Use Precision and Significant Digits

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Choose the possible range of the measurement 0.5 mg  $\pm\,0.2\%$  .

- a. 0.3 mg-0.7 mg
- $0.499 \mathrm{\,mg}{-}0.501 \mathrm{\,mg}$
- 0.49 mg-0.51 mg
- 0.48 mg-0.52 mg

ExamView

the least possible length of the inseam? What is the greatest possible length of the inseam? A seamstress measures an inseam to the nearest centimeter and reports its length as 71 cm. What is least: 69.5 cm

- a. least: 69.5 cm
- least: 70 cm greatest: 72 cm greatest: 70.5 cm

d. least: 70.5 cm greatest: 71.5 cm

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greatest: 71.5 cm

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fall within the specified tolerance?
a. 3.012 yd
b. 3.001 yd The tolerance for a plank of wood at a factory is 3 yd  $\pm$  0.002 yd. Which of the following does NOT

c. 2.998 ydd. 2.999 yd

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