Unit 01: Scientific Notation, Data Analysis, and Experimental Error

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Professor @The Saylor Foundation

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1. Unit 01: Scientific Notation, Data Analysis, and Experimental Error

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4. Chapter: Unit 01: Scientific Notation, Data Analysis, and Experimental Error

1. Unit 01: Scientific Notation, Data Analysis, and Experimental Error Questions

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4.1.1. Madje can measure lengths to within 200 $$\mu$$m (standard deviatio...

Author: Steve Gibbs

Madje can measure lengths to within 200 $$\mu$$m (standard deviation) using a custom ruler and magnifier. She measures the lengths of the base of a rectangle and the height of a rectangle to be 13.25 and 11.15 cm. What are the area and estimated standard error of that area?

Please choose only one answer:

- 147.7 +/- 4.0 cm[sup]2[/sup]
- 147.74 +/- 3.46 cm[sup]2[/sup]
- 147.74 +/- 0.40 cm[sup]2[/sup]
- 14.74 +/- 0.04 cm[sup]2[/sup]
- 147.74 +/- 0.04 cm[sup]2[/sup]

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4.1.2. Pablo measures the diameter of a cylinder to be $$11.91 \pm 0.05 \,...

Author: Steve Gibbs

Pablo measures the diameter of a cylinder to be $$11.91 \pm 0.05 \, \,{\tt{mm}}$$. What is the area of the cylinder. Remember that there is only one independent measure of the diameter.

Please choose only one answer:

- 111.4 +/- 0.935 mm[sup] 2 [/sup]
- 11.4 +/- 0.09 mm [sup] 2 [/sup]
- 111.4 +/- 0.094 mm [sup] 2 [/sup]
- 111.4 +/- 0.05 mm [sup] 2 [/sup]
- 111.4 +/- 0.25 mm [sup] 2 [/sup]

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4.1.3. A small hydroelectric dam produces 90 megawatts of power. If a typi...

Author: Steve Gibbs

A small hydroelectric dam produces 90 megawatts of power. If a typical home in the area can consume 20kW at peak usage, how many such homes can the hydroelectric plant supply at peak usage?

Please choose only one answer:

- 5000
- 450
- 45,000
- 45
- 450,000

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4.1.4. Calculate the mean and standard deviation of the following sample: ...

Author: Steve Gibbs

Calculate the mean and standard deviation of the following sample: 4.72, 4.83, 4.98, 5.07, 4.61, 2.05.

Please choose only one answer:

- 4.0, 1.0
- 1.33, 4.38
- 4.38, 1.33
- 4.37, 1.2
- 4.38, 1.15

Check the answer of this question online at QuizOver.com:
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4.1.5. If there are 100,000,000,000 stars in a galaxy and 100,000,000,000 ...

Author: Steve Gibbs

If there are 100,000,000,000 stars in a galaxy and 100,000,000,000 galaxies in the universe, then how many stars are there in the universe?

Please choose only one answer:

- 10[sup]27[/sup]
- 10[sup]25[/sup]
- 10[sup]22[/sup]
- 10[sup]10[/sup]
- 10[sup]5[/sup]

Check the answer of this question online at QuizOver.com:
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4.1.6. Calculate (within a factor of 100) the number of water molecules in...

Author: Steve Gibbs

Calculate (within a factor of 100) the number of water molecules in a fully grown human being. The mass of one water molecule is approximately 3 x 10[sup]-23[/sup] g and a human being may be considered to be 70% water.

Please choose only one answer:

- $$10^{15}$$
- $$10^{20}$$
- $$10^{18}$$
- $$10^{27}$$
- $$10^{23}$$

Check the answer of this question online at QuizOver.com:
Question: Calculate within a factor of 100 the number Steve Gibbs Saylor Measurement

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