# Measurement

&

# Experimentation Lab MCQ

Measurement Lab. MCQ

**Author: Steve Gibbs** 

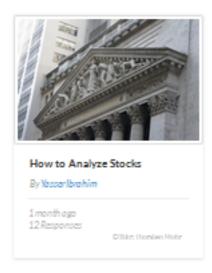
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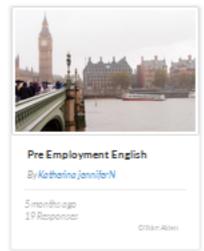
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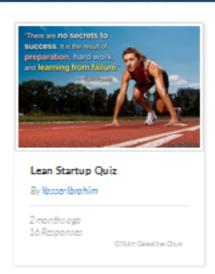
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Author Profile: http://www.quizover.com/user/profile/steve.gibbs

- 1. Measurement & Experimentation Lab MCQ
- Unit 03: Electrical Circuits and Data Acquisition
- Unit 06: Time Measurements
- Unit 02: Graphical and Tabular Data Presentation
- Unit 05: Measurement of Linear Dimension
- Unit 08: Temperature Measurements
- Unit 07: Force, Torque, and Pressure Measurements
- Unit 01: Scientific Notation, Data Analysis, and Experimental Error

Jnit (	03: Electric	al Circuits	and Data A	Acquisitio	n Questio	ns	

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4.1.1. A 12 bit ADC may have \_\_\_\_\_ unique output conditions. Author: Steve Gibbs A 12 bit ADC may have \_\_\_\_ unique output conditions. Please choose only one answer: 2[sup]11[/sup] 2[sup]10[/sup] 12[sup]2[/sup] 12[sup]10[/sup] 2[sup]12[/sup] Check the answer of this question online at QuizOver.com: Question: A 12 bit ADC may have unique output conditions Steve @The Saylor Flashcards: http://www.quizover.com/flashcards/a-12-bit-adc-may-have-unique-output-conditions-steve-the-saylor?pdf=1505 Interactive Question: http://www.quizover.com/question/a-12-bit-adc-may-have-unique-output-conditions-steve-the-saylor?pdf=1505

4.1.2. A 6dB attenuator and a 50dB attenuator in series provide a total at...

# Author: Steve Gibbs

A 6dB attenuator and a 50dB attenuator in series provide a total attenuation of

Please choose only one answer:

- 300dB
- 56dB
- 5.4dB
- 50dB
- None except this

Check the answer of this question online at QuizOver.com:

Question: A 6dB attenuator and a 50dB attenuator in Steve Gibbs @The Saylor

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4.1.3. A current source
Author: Steve Gibbs
A current source
<ul> <li>Please choose only one answer:</li> <li>Can supply an infinite current upon demand.</li> <li>Supplies a constant current regardless of voltage within practical limits</li> <li>Is the source in use at the present</li> <li>Can supply AC or DC upon demand</li> <li>Supplies current varying linearly with the output voltage</li> </ul>
Check the answer of this question online at QuizOver.com: Question: A current source Steve Gibbs @The Saylor Foundat Measurement Quest  Flashcards: http://www.quizover.com/flashcards/a-current-source-steve-gibbs-the-saylor-foundat-measurement-quest?pdf=1505  Interactive Question: http://www.quizover.com/question/a-current-source-steve-gibbs-the-saylor-foundat-measurement-quest?pdf=1505

4.1.4. A digital signal
Author: Steve Gibbs
A digital signal
<ul> <li>Please choose only one answer:</li> <li>Is represented by numbers ranging from 1 to 10</li> <li>Corresponds to the output of digital-to-analog converter</li> <li>Is represented by 10 bits of data</li> <li>Takes on discrete values over a range</li> <li>None of the above</li> </ul>
Check the answer of this question online at QuizOver.com:  Question: A digital signal Steve Gibbs @The Saylor Foundat Measurement Quest
Flashcards: http://www.quizover.com/flashcards/a-digital-signal-steve-gibbs-the-saylor-foundat-measurement-quest?pdf=1505  Interactive Question: http://www.quizover.com/question/a-digital-signal-steve-gibbs-the-saylor-foundat-measurement-quest?pdf=1505

4.1.5. A signal (in the context of this course) is
Author: Steve Gibbs  A circult (in the context of this course) is
A signal (in the context of this course) is
<ul> <li>Please choose only one answer:</li> <li>An indication to start or stop an activity</li> <li>An unexpected event</li> <li>An electrical current</li> <li>A detectable quantity used to communicate information</li> <li>None except this</li> </ul>
Check the answer of this question online at QuizOver.com: Question: A signal in the context of this course is Steve Gibbs Saylor Foundat
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http://www.quizover.com/flashcards/a-signal-in-the-context-of-this-course-is-steve-gibbs-saylor-foundat?pdf=1505
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4. 1.6. A simple way to filter out low frequencies is to place
Author: Steve Gibbs
A simple way to filter out low frequencies is to place
<ul> <li>Please choose only one answer:</li> <li>An inductor in series with the load</li> <li>A capacitor in parallel with the load</li> <li>A capacitor in series with the load</li> <li>A rapid switch in series with the load</li> <li>None except this</li> </ul>
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Interactive Question: <a href="http://www.quizover.com/question/a-simple-way-to-filter-out-low-frequencies-steve-gibbs-the-saylor?pdf=1505">http://www.quizover.com/question/a-simple-way-to-filter-out-low-frequencies-steve-gibbs-the-saylor?pdf=1505</a>

4.1.7. AC amplitude may be measured by
Author: Steve Gibbs
AC amplitude may be measured by
<ul> <li>Please choose only one answer:</li> <li>Frequency</li> <li>Period</li> <li>Frequency and period</li> <li>Duration</li> <li>Peak-to-peak, RMS, or average amplitude</li> </ul>
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4.1.8. Aliasing in signal digitization occurs when
Author: Steve Gibbs
Aliasing in signal digitization occurs when
<ul> <li>Please choose only one answer:</li> <li>A signal is digitized too rapidly</li> <li>A signal is not digitized rapidly enough</li> <li>A signal is not digitized with enough amplitude resolution</li> <li>A connection is mislabeled</li> <li>All including this</li> </ul>
Check the answer of this question online at QuizOver.com: Question: Aliasing in signal digitization occurs when Steve Gibbs @The Saylor  Flashcards: <a href="http://www.quizover.com/flashcards/aliasing-in-signal-digitization-occurs-when-steve-gibbs-the-saylor?pdf=1505">http://www.quizover.com/flashcards/aliasing-in-signal-digitization-occurs-when-steve-gibbs-the-saylor?pdf=1505</a> Interactive Question:
http://www.quizover.com/question/aliasing-in-signal-digitization-occurs-when-steve-gibbs-the-saylor?pdf=1505

4.1.9. Alternating current
Author: Steve Gibbs
Alternating current
Please choose only one answer:  Oscillates at 60 Hz  Changes amplitude with time  Is always positive  Decays with time  None except this
Check the answer of this question online at QuizOver.com: Question: Alternating current Steve Gibbs @The Saylor Foundat Measurement Quest
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http://www.quizover.com/flashcards/alternating-current-steve-gibbs-the-saylor-foundat-measurement-quest?pdf=1505 Interactive Question:
http://www.quizover.com/question/alternating-current-steve-gibbs-the-saylor-foundat-measurement-quest?pdf=1505

4.1.10. A filter is an AC circuit that separates signals based upon
Author: Steve Gibbs
A filter is an AC circuit that separates signals based upon
Please choose only one answer:  Amplitude  Voltage  Frequency  Time  Duration
Check the answer of this question online at QuizOver.com:  Question: A filter is an AC circuit that separates Steve Gibbs @The Saylor
Flashcards: http://www.quizover.com/flashcards/a-filter-is-an-ac-circuit-that-separates-steve-gibbs-the-saylor?pdf=1505
Interactive Question: http://www.quizover.com/question/a-filter-is-an-ac-circuit-that-separates-steve-gibbs-the-saylor?pdf=1505

4.1.11. A power gain of 30 dB corresponds to a factor of
Author: Steve Gibbs
A power gain of 30 dB corresponds to a factor of
Please choose only one answer:  10 30
• 100
• 1000
• 3000
Check the answer of this question online at QuizOver.com:  Question: A power gain of 30 dB corresponds to a factor Steve Gibbs @The Measurement
Flashcards: <a href="http://www.quizover.com/flashcards/a-power-gain-of-30-db-corresponds-to-a-factor-steve-gibbs-the-measurem?pdf=1505">http://www.quizover.com/flashcards/a-power-gain-of-30-db-corresponds-to-a-factor-steve-gibbs-the-measurem?pdf=1505</a>
Interactive Question: http://www.quizover.com/question/a-power-gain-of-30-db-corresponds-to-a-factor-steve-gibbs-the-measurem?pdf=1505

# 4.1.12. A low-pass filter permits the passage of

# Author: Steve Gibbs

A low-pass filter permits the passage of

Please choose only one answer:

- Low frequency signals
- Small voltages
- Small currents
- DC signals
- · All including this

Check the answer of this question online at QuizOver.com:

Question: A low-pass filter permits the passage Steve Gibbs Saylor Foundat

#### Flashcards:

http://www.quizover.com/flashcards/a-low-pass-filter-permits-the-passage-steve-gibbs-saylor-foundat?pdf=1505

# Interactive Question:

http://www.quizover.com/question/a-low-pass-filter-permits-the-passage-steve-gibbs-saylor-foundat?pdf=1505

4.1.13. The nomenclature "live zero" indicates
Author: Steve Gibbs
The nomenclature "live zero" indicates
<ul> <li>Please choose only one answer:</li> <li>A drifting baseline</li> <li>A fluctuating digital readout</li> <li>A non-zero rest state for an analog signal</li> <li>A faulty digital readout</li> <li>None except this</li> </ul>
Check the answer of this question online at QuizOver.com:  Question: The nomenclature live zero indicates Steve Gibbs Saylor Foundat Measurement
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Interactive Question: <a href="http://www.quizover.com/question/the-nomenclature-live-zero-indicates-steve-gibbs-saylor-foundat-measur?pdf=1505">http://www.quizover.com/question/the-nomenclature-live-zero-indicates-steve-gibbs-saylor-foundat-measur?pdf=1505</a>

4.1.14. Three resistors (R[sub]1[/sub], R[sub]2[/sub], R[sub]3[/sub]) in se...

# Author: Steve Gibbs

Three resistors (R[sub]1[/sub], R[sub]2[/sub], R[sub]3[/sub]) in series present a total resistance of\_

Please choose only one answer:

- R[sub]1[/sub] + R[sub]2[/sub] + R[sub]3[/sub]
- 1/R[sub]1[/sub] + 1/R[sub]2[/sub]+1/R[sub]3[/sub]
- R[sub]1[/sub]xR[sub]2[/sub]xR[sub]3[/sub]/(R[sub]1[/sub]+R[sub]2[/sub]+R[sub]3[/sub])
- R[sub]1[/sub]/R[sub]2[/sub] + R[sub]2[/sub]/R[sub]3[/sub] + R[sub]3[/sub]/R[sub]1[/sub]
- None except this

Check the answer of this question online at QuizOver.com:

Question: Three resistors R sub 1 /sub R sub 2 /sub R Steve Gibbs @The Saylor

#### Flashcards:

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#### Interactive Question:

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# 4.1.15. An analog signal \_\_\_\_\_.

Author:	Steve	Gibbs

An analog signal \_\_\_\_\_.

Please choose only one answer:

- Is continuously variable over a range
- Takes on a finite number of discrete values
- Is measured in units of electrical current or flow rate
- Is measured by voltage
- · Is determined continuously in time

Check the answer of this question online at QuizOver.com:

Question: An analog signal . Steve Gibbs @The Saylor Foundat Measurement Quest

#### Flashcards:

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#### Interactive Question:

http://www.quizover.com/question/an-analog-signal-steve-gibbs-the-saylor-foundat-measurement-quest?pdf=1505

Jnit 06: Time N	/leasurements	Questions		

4.1.1. A human-operated stop watch may be expected to be precise to within...
Author: Steve Gibbs
A human-operated stop watch may be expected to be precise to within\_\_\_\_\_.

Please choose only one answer:

- 10 ms
- 50 ms
- 300 ms
- 1 s
- 5 s

Check the answer of this question online at QuizOver.com: Question: A human-operated stop watch may be expected Steve Gibbs @The Saylor

#### Flashcards:

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#### Interactive Question:

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4. f. 2. A typical numan reaction time is on the order or
Author: Steve Gibbs
A typical human reaction time is on the order of
Please choose only one answer:  200 ms  500 ms  10 ms  1 s
Check the answer of this question online at QuizOver.com:  Question: A typical human reaction time is on the order Steve Gibbs Saylor
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4.1.3. The current standard for time measurement is accurate to one part i...

# Author: Steve Gibbs

The current standard for time measurement is accurate to one part in\_\_\_\_\_\_

Please choose only one answer:

- 10 [sup]5[/sup]
- 10[sup]10[/sup]
- 10[sup]15[/sup]
- 10[sup]50[/sup]
- 10[sup]25[/sup]

Check the answer of this question online at QuizOver.com:

Question: The current standard for time measurement is Steve Gibbs Saylor Experimentation

#### Flashcards:

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#### Interactive Question:

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4.1.4. The fastest chemical reactions can take place on time scales of
Author: Steve Gibbs
The fastest chemical reactions can take place on time scales of
Please choose only one answer:
• ps
• ns
• ms
• S
• fs
Check the answer of this question online at QuizOver.com:  Question: The fastest chemical reactions can take place Steve Gibbs Saylor
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Interactive Question: http://www.quizover.com/question/the-fastest-chemical-reactions-can-take-place-steve-gibbs-saylor?pdf=1505

4.1.5. The time required for light or other electromagnetic signals to tra...

# Author: Steve Gibbs

The time required for light or other electromagnetic signals to travel 1 m is approximately\_\_\_\_\_\_

Please choose only one answer:

- 1 ms
- 1 x 10[sup]-9[/sup] s
- 1 x 10[sup]-23[/sup] s
- 1 x 10[sup]-5[/sup] s
- 1 x 10[sup]-60[/sup] s

Check the answer of this question online at QuizOver.com:

Question: The time required for light or other Steve Gibbs Saylor Foundat Measurement

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### Interactive Question:

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. Unit 02	2: Graphical a	no rabular L	Jala Preser	itation Ques	Suons	

4.1.1. A temperature probe provides the following data as a function of ti...

# Author: Steve Gibbs

A temperature probe provides the following data as a function of time (T(C), t(s)): (99, 2.0), (92, 11.0), (91,13.5), (85,17.0), (78,41), (69, 45), (46, 68), (49,112). Plot the data. You may use a spreadsheet or other data analysis system. Extrapolate to find the temperature at t=0s.

Please choose only one answer:

- 110 C
- 97 C
- 90 C
- 125 C
- 85 C

Check the answer of this question online at QuizOver.com:

Question: A temperature probe provides the following Steve Gibbs Saylor Measurement

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4.1.2. A temperature probe provides the following data as a function of ti...

# Author: Steve Gibbs

A temperature probe provides the following data as a function of time (T(C), t(s)): (99, 2.0), (95, 11.0), (91,13.5), (85,17.0), (78,41), (69, 45), (46, 68), (49,112). Plot the data. You may use a spreadsheet or other data analysis system. Interpolate to find the temperature at 80s.

# Please choose only one answer:

- 60 C
- 65 C
- 55 C
- 45 C
- 40 C

Check the answer of this question online at QuizOver.com:

Question: A temperature probe provides the following Steve Gibbs Saylor Measurement

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4.1.3. A temperature probe provides the following data as a function of ti...

# Author: Steve Gibbs

A temperature probe provides the following data as a function of time (T(C), t(s)): (99, 2.0), (95, 11.0), (91,13.5), (85,17.0), (78,41), (69, 45), (46, 68), (49,112). Plot the data. You may use a spreadsheet or other data analysis system. Which data pair deviates most from the least-squares line?

Please choose only one answer:

- 99, 2
- 95, 11
- 85, 17
- 78, 41
- 69, 45

Check the answer of this question online at QuizOver.com:

Question: A temperature probe provides the following Steve Gibbs Saylor Measurement

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4.1.4. A temperature probe provides the following data as a function of ti...

# Author: Steve Gibbs

A temperature probe provides the following data as a function of time (T(C), t(s)): (99, 2.0), (95, 11.0), (91,13.5), (85,17.0), (78,41), (69, 45), (46, 68), (49,112). Plot the data. You may use a spreadsheet or other data analysis system. What is the least-squares slope of the data?

Please choose only one answer:

- 0.51 degrees C/s
- -0.51 degrees C/s
- 96 degrees C/s
- 1.9 degrees C/s
- -1.9 degrees C/s

Check the answer of this question online at QuizOver.com:

Question: A temperature probe provides the following Steve Gibbs Saylor Measurement

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Jnit 05: M	leasurement	of Linear Di	imension (	Questions		

Author: Steve Gibbs
Calipers enable measurements of lengths finer than
Please choose only one answer:  m m m nm cm fm
Check the answer of this question online at QuizOver.com: Question: Calipers enable measurements of lengths finer Steve Gibbs @The Measurement Flashcards:
http://www.quizover.com/flashcards/calipers-enable-measurements-of-lengths-finer-steve-gibbs-the-measurem?pdf=1505  Interactive Question: http://www.quizover.com/question/calipers-enable-measurements-of-lengths-finer-steve-gibbs-the-measurem?pdf=1505

4.1.1. Calipers enable measurements of lengths finer than\_\_\_\_\_.

4.1.2. Equipment may be machined to tolerances approaching
Author: Steve Gibbs
Equipment may be machined to tolerances approaching
Please choose only one answer:  • m
• mm
• nm
• cm
• pm
pini
Check the answer of this question online at QuizOver.com:  Question: Equipment may be machined to tolerances Steve Gibbs @The Saylor Measurement
Flashcards: <a href="http://www.quizover.com/flashcards/equipment-may-be-machined-to-tolerances-steve-gibbs-the-saylor-measure?pdf=1505">http://www.quizover.com/flashcards/equipment-may-be-machined-to-tolerances-steve-gibbs-the-saylor-measure?pdf=1505</a>
Interactive Question: <a href="http://www.quizover.com/question/equipment-may-be-machined-to-tolerances-steve-gibbs-the-saylor-measure?pdf=1505">http://www.quizover.com/question/equipment-may-be-machined-to-tolerances-steve-gibbs-the-saylor-measure?pdf=1505</a>

4.1.3. Molecular dimensions are on the order of
Author: Steve Gibbs
Molecular dimensions are on the order of
Please choose only one answer:
• nm
• mm
• cm
• pm
• fm
Check the answer of this question online at QuizOver.com:  Question: Molecular dimensions are on the order of . Steve Gibbs Saylor Measurement
Flashcards: http://www.quizover.com/flashcards/molecular-dimensions-are-on-the-order-of-steve-gibbs-saylor-measuremen?pdf=1505
Interactive Question: <a href="http://www.quizover.com/question/molecular-dimensions-are-on-the-order-of-steve-gibbs-saylor-measuremen?pdf=1505">http://www.quizover.com/question/molecular-dimensions-are-on-the-order-of-steve-gibbs-saylor-measuremen?pdf=1505</a>

4.1.4. Visible light microscopy can view features as small as a few
Author: Steve Gibbs
Visible light microscopy can view features as small as a few
Please choose only one answer:  • mm
• pm
• nm
• m
• fm
Check the answer of this question online at QuizOver.com:  Question: Visible light microscopy can view features Steve Gibbs @The Saylor
Flashcards: http://www.quizover.com/flashcards/visible-light-microscopy-can-view-features-steve-gibbs-the-saylor?pdf=1505
Interactive Question: http://www.quizover.com/question/visible-light-microscopy-can-view-features-steve-gibbs-the-saylor?pdf=1505

4. Chapter: Unit 08: Temperature Measurements
1. Unit 08: Temperature Measurements Questions
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4.1.1. A newscast reports that the temperature at the surface of a newly d...

# Author: Steve Gibbs

A newscast reports that the temperature at the surface of a newly discovered planet orbiting a distant star is -502 degrees Fahrenheit. What is wrong with this claim?

# Please choose only one answer:

- One cannot measure temperatures from a distance.
- There is no temperature measure in a vacuum.
- The reported temperature is below absolute zero.
- The temperature should be reported in degrees Kelvin.
- None except this

Check the answer of this question online at QuizOver.com:

Question: A newscast reports that the temperature at Steve Gibbs Saylor Measurement

### Flashcards:

http://www.quizover.com/flashcards/a-newscast-reports-that-the-temperature-at-steve-gibbs-saylor-measurem?pdf=1505

# Interactive Question:

http://www.quizover.com/question/a-newscast-reports-that-the-temperature-at-steve-gibbs-saylor-measurem?pdf=1505

4.1.2. A thermocouple produces a\_ Author: Steve Gibbs A thermocouple produces a\_ Please choose only one answer: Temperature-dependent voltage Temperature-dependent resistance Temperature-dependent mass Temperature-dependent capacitance None of the above Check the answer of this question online at QuizOver.com: Question: A thermocouple produces a . Steve Gibbs @The Saylor Foundat Measurement Flashcards: http://www.quizover.com/flashcards/a-thermocouple-produces-a-steve-gibbs-the-saylor-foundat-measurement?pdf=1505 Interactive Question: http://www.quizover.com/question/a-thermocouple-produces-a-steve-gibbs-the-saylor-foundat-measurement?pdf=1505

Author: Steve Gibbs
The temperature of the healthy human body in degrees C is
Please choose only one answer:  98.6  40  100  37
Check the answer of this question online at QuizOver.com:  Question: The temperature of the healthy human body in Steve Gibbs Saylor Measurement
Flashcards: http://www.quizover.com/flashcards/the-temperature-of-the-healthy-human-body-in-steve-gibbs-saylor-measur?pdf=1505
Interactive Question: http://www.quizover.com/question/the-temperature-of-the-healthy-human-body-in-steve-gibbs-saylor-measur?pdf=1505
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4.1.3. The temperature of the healthy human body in degrees C is\_\_\_\_\_.

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4.1.4. If we wish to have a very fast temperature sensor, we should be con...

# Author: Steve Gibbs

If we wish to have a very fast temperature sensor, we should be concerned with\_\_\_\_\_

Please choose only one answer:

- The specific heat capacity of the materials used in constructing the sensor
- The rate at which the sensor output is sampled
- The mass of the sensor
- The thermal conductivity of the sensor
- All of the above

Check the answer of this question online at QuizOver.com:

Question: If we wish to have a very fast temperature Steve Gibbs @The Saylor

# Flashcards:

http://www.quizover.com/flashcards/if-we-wish-to-have-a-very-fast-temperature-steve-gibbs-the-saylor?pdf=1505

# Interactive Question:

http://www.quizover.com/question/if-we-wish-to-have-a-very-fast-temperature-steve-gibbs-the-saylor?pdf=1505

Jnit 07	: Force, To	orque, and	Pressure	Measure	ments Qu	estions	
		com - http://www					

4.1.1. A column of mercury 1 m high exerts a pressure equivalent to
Author: Steve Gibbs
A column of mercury 1 m high exerts a pressure equivalent to
Please choose only one answer:
• 33 ft water
• 9.8 ft water
• 45 ft water
• 12 ft water
• 760 psi
Check the answer of this question online at QuizOver.com:  Question: A column of mercury 1 m high exerts a pressure Steve @The Saylor
Flashcards: http://www.quizover.com/flashcards/a-column-of-mercury-1-m-high-exerts-a-pressure-steve-the-saylor?pdf=1505
Interactive Question: <a href="http://www.quizover.com/question/a-column-of-mercury-1-m-high-exerts-a-pressure-steve-the-saylor?pdf=1505">http://www.quizover.com/question/a-column-of-mercury-1-m-high-exerts-a-pressure-steve-the-saylor?pdf=1505</a>

4.1.2. A force of 1 Newton is approximately equal to\_\_\_ Author: Steve Gibbs A force of 1 Newton is approximately equal to\_ Please choose only one answer: 9.8 lb[sub]f[/sub] 32.2 lb[sub]f[/sub] 0.225 lb[sub]f[/sub] 4.448 lb[sub]f[/sub] 0.138 lb[sub]f[/sub] Check the answer of this question online at QuizOver.com: Question: A force of 1 Newton is approximately equal Steve Gibbs @The Saylor Flashcards: http://www.quizover.com/flashcards/a-force-of-1-newton-is-approximately-equal-steve-gibbs-the-saylor?pdf=1505 Interactive Question: http://www.quizover.com/question/a-force-of-1-newton-is-approximately-equal-steve-gibbs-the-saylor?pdf=1505

4.1.3. A mass of 60 lb[sub]m[/sub] at the end of a yard-long pipe exerts a...

# Author: Steve Gibbs

A mass of 60 lb[sub]m[/sub] at the end of a yard-long pipe exerts a torque of \_\_\_\_ at the pivot at the other end of the pipe

Please choose only one answer:

- 122 Nm
- 244 Nm
- 980 Nm
- 2440 Nm
- 1220 Nm

Check the answer of this question online at QuizOver.com:

Question: A mass of 60 lb sub m /sub at the end of a Steve Gibbs Saylor Measurement

### Flashcards:

http://www.quizover.com/flashcards/a-mass-of-60-lb-sub-m-sub-at-the-end-of-a-steve-gibbs-saylor-measureme?pdf=1505

# Interactive Question:

http://www.quizover.com/question/a-mass-of-60-lb-sub-m-sub-at-the-end-of-a-steve-gibbs-saylor-measureme?pdf=1505

4.1.4. A strain gauge increases resistance by 0.08 Ohm/mm of extension at ... Author: Steve Gibbs A strain gauge increases resistance by 0.08 Ohm/mm of extension at 20 degrees C. An increase of 0.023 Ohms in resistance indicates a strain of\_ Please choose only one answer:

0.124 mm

0.300 mm

- 0.288 mm
- 0.385 mm
- 0.060 mm

Check the answer of this question online at QuizOver.com: Question: A strain gauge increases resistance by 0.08 Steve Gibbs @The Saylor

### Flashcards:

http://www.quizover.com/flashcards/a-strain-gauge-increases-resistance-by-0-08-steve-gibbs-the-saylor?pdf=1505

# Interactive Question:

http://www.quizover.com/question/a-strain-gauge-increases-resistance-by-0-08-steve-gibbs-the-saylor?pdf=1505

4.1.5. A torque of 25 lbft is equivalent to
Author: Steve Gibbs
A torque of 25 lbft is equivalent to
Please choose only one answer:
• 34 Nm
• 30 Nm
• 32 Nm
• 9.8 Nm
• 160 Nm
Check the answer of this question online at QuizOver.com:  Question: A torque of 25 lbft is equivalent to . Steve Gibbs @The Saylor Measurement
Flashcards: <a href="http://www.quizover.com/flashcards/a-torque-of-25-lbft-is-equivalent-to-steve-gibbs-the-saylor-measuremen?pdf=1505">http://www.quizover.com/flashcards/a-torque-of-25-lbft-is-equivalent-to-steve-gibbs-the-saylor-measuremen?pdf=1505</a>
Interactive Question: http://www.quizover.com/question/a-torque-of-25-lbft-is-equivalent-to-steve-gibbs-the-saylor-measuremen?pdf=1505

4.1.6. A vendor reports that a vacuum pump can provide 25 psi of vacuum re...

# Author: Steve Gibbs

A vendor reports that a vacuum pump can provide 25 psi of vacuum relative to the earth's atmospheric pressure. What is wrong with this claim?

# Please choose only one answer:

- The vendor does not specify gauge or absolute pressure.
- The vendor does not specify static or dynamic pressure.
- The vendor does not use SI units.
- The vendor claims a specification with a negative absolute pressure.
- All including this

Check the answer of this question online at QuizOver.com:

Question: A vendor reports that a vacuum pump can Steve Gibbs @The Saylor Measurement

### Flashcards:

http://www.quizover.com/flashcards/a-vendor-reports-that-a-vacuum-pump-can-steve-gibbs-the-saylor-measure?pdf=1505

# Interactive Question:

http://www.quizover.com/question/a-vendor-reports-that-a-vacuum-pump-can-steve-gibbs-the-saylor-measure?pdf=1505

4.1.7. Mattias's mass is 85.2 kg. His mass in lb[sub]m[/sub] is approximat...

# Author: Steve Gibbs

Mattias's mass is 85.2 kg. His mass in lb[sub]m[/sub] is approximately\_\_\_\_\_

Please choose only one answer:

- 188 lb[sub]m[/sub]
- 37.9 lb[sub]m[/sub]
- 32.2 lb[sub]m[/sub]
- 225 lb[sub]m[/sub]
- 204.5 lb[sub]m[/sub]

Check the answer of this question online at QuizOver.com:

Question: Mattias's mass is 85.2 kg. His mass in lb Steve Gibbs @The Saylor

# Flashcards:

http://www.quizover.com/flashcards/mattias-s-mass-is-85-2-kg-his-mass-in-lb-steve-gibbs-the-saylor?pdf=1505

# Interactive Question:

http://www.quizover.com/question/mattias-s-mass-is-85-2-kg-his-mass-in-lb-steve-gibbs-the-saylor?pdf=1505

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Unit 01: 3	Scientific No	tation, Data A	Analysis, ar	nd Experime	ntal Error Qu	estions	
		http://www.quizove					

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]

Check the answer of this question online at QuizOver.com:

Question: Madje can measure lengths to within 200 mu Steve Gibbs @The Saylor

### Flashcards:

http://www.quizover.com/flashcards/madje-can-measure-lengths-to-within-200-mu-steve-gibbs-the-saylor?pdf=1505

# Interactive Question:

http://www.quizover.com/question/madje-can-measure-lengths-to-within-200-mu-steve-gibbs-the-saylor?pdf=1505

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]

Check the answer of this question online at QuizOver.com:

Question: Pablo measures the diameter of a cylinder to Steve Gibbs Saylor Measurement

### Flashcards:

http://www.quizover.com/flashcards/pablo-measures-the-diameter-of-a-cylinder-to-steve-gibbs-saylor-measur?pdf=1505

# Interactive Question:

http://www.quizover.com/question/pablo-measures-the-diameter-of-a-cylinder-to-steve-gibbs-saylor-measur?pdf=1505

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

Check the answer of this question online at QuizOver.com: Question: A small hydroelectric dam produces 90 megawatts Steve @The Saylor

### Flashcards:

http://www.quizover.com/flashcards/a-small-hydroelectric-dam-produces-90-megawatts-steve-the-saylor?pdf=1505

# Interactive Question:

http://www.quizover.com/question/a-small-hydroelectric-dam-produces-90-megawatts-steve-the-saylor?pdf=1505

# 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:

Question: Calculate the mean and standard deviation of Steve Gibbs Saylor Measurement

# Flashcards:

http://www.quizover.com/flashcards/calculate-the-mean-and-standard-deviation-of-steve-gibbs-saylor-measur?pdf=1505

# Interactive Question:

http://www.quizover.com/question/calculate-the-mean-and-standard-deviation-of-steve-gibbs-saylor-measur?pdf=1505

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: Question: If there are 100 000 000 000 stars in a galaxy Steve @The Saylor

### Flashcards:

http://www.quizover.com/flashcards/if-there-are-100-000-000-stars-in-a-galaxy-steve-the-saylor?pdf=1505

# Interactive Question:

http://www.quizover.com/question/if-there-are-100-000-000-stars-in-a-galaxy-steve-the-saylor?pdf=1505

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

Flashcards:

http://www.quizover.com/flashcards/calculate-within-a-factor-of-100-the-number-steve-gibbs-saylor-measure?pdf=1505

Interactive Question:

http://www.quizover.com/question/calculate-within-a-factor-of-100-the-number-steve-gibbs-saylor-measure?pdf=1505