Unit 07: Force, Torque, and Pressure Measurements

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4. Chapter: Unit 07: Force, Torque, and Pressure Measurements

1. Unit 07: Force, Torque, and Pressure Measurements Questions

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:
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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]

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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

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

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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
- 0.288 mm
- 0.300 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

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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

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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

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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

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