

Flag question

For a 30 m tape weighing 0.015 kg/m, used in 10 equal spans (300 m distance) and pulled with 10 kg weight, compute the sag correction.

- ☐ -0.030 m
- ☐ -0.004 m
- ☒ -0.023 m
- ☐ -0.016 m

Question **30**

Not yet answered

Marked out of 1

Flag question

A tape measures 100.02 m instead of 100 m. What correction should be applied to a 500 m measured distance?

- ☒ -0.10 m
- ☐ -0.12 m
- ☐ 0.10 m
- ☐ -0.08 m

A 30 m tape is found to be 30.03 m after calibration. What is the correction to apply when a distance of 120 m is measured with it?

- ☐ -0.12 m
- ☐ +0.03 m
- ☐ -0.03 m
- ☐ +0.12 m

Question **29**

Not yet answered

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For a 30 m tape weighing 0.015 kg/m, used in 10 equal spans (300 m distance) and pulled with 10 kg weight, compute the sag correction.

- ☐ -0.030 m
- ☐ -0.004 m
- ☐ -0.023 m
- ☐ -0.016 m

Question **12**

Not yet answered

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Elevations are only measured using leveling instruments

Select one:

- ☐ True
- ☒ False

← Mid Exam 20241

Time left **00:36:21**([Hide](#))

Question 14

Not yet answered
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Pulling correction is needed when:

The tape sags ☐The tape is too short ☐The tape is stretched too much ☒The surveyor makes a mistake ☐[Clear my choice](#)

Question 15

Not yet answered
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Which of the following is NOT a method of setting out right angles in surveying?

Pythagoras method ☐Equilateral triangle method ☐Shortest distance method ☒Compass method ☐

Hydrographic surveying focuses on land boundaries
:Select one



True



False

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Question **28**

Not yet
answered

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A tape is used under 120 N instead of standard 100 N. Given $A=1.5 \text{ mm}^2$, $E=2.1 \times 10^{11} \text{ N/m}^2$, for 60 m, compute tension correction.

- ☐ +0.0045 m
- ☐ +0.0028 m
- ☐ +0.0038 m
- ☐ +0.0060 m

Question **29**

Not yet
answered

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A 30 m tape is tested and found to be 0.015 m too long. What is the correction to apply over a 90 m measurement?

- ☐ -0.015 m
- ☐ -0.045 m
- ☐ +0.015 m
- ☐ +0.045 m

Question **30**

Not yet
answered

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The measured sloped distance between two points is 100 m, and the vertical difference between them is 4 m. Find the slope correction to find the horizontal distance.

- ☐ -0.16 m
- ☐ -0.08 m
- ☐ -0.10 m
- ☐ -0.20 m

A tape measures 100.02 m instead of 100 m. What correction should be applied to a 500 m measured distance?

- ☐ -0.10 m
- ☐ 0.10 m
- ☐ -0.08 m
- ☐ -0.12 m

Question **29**

Not yet answered

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A 30 m tape weighs 0.02 kg/m. If suspended in 2 spans under 8.15 kg pull, find the sag correction.

- ☐ -0.006 m
- ☐ -0.005 m
- ☐ -0.0135 m
- ☐ -0.008 m

Flattening of the Earth refers to:

- ☐ The height differences on land
- ☐ The slope of mountains
- ☒ The deviation of the Earth from a perfect sphere
- ☐ The curvature of water bodies