



FIRST LEGO LEAGUE - Ontario

Questions

*if you didn't do one of the missions mentioned use hypothetical values to answer the questions

Question 1 Math	What distance did the cuboid travel during its time being rotated around? Use $C = 2\pi R$ and show your work.
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Question 2 Science	Explain how you choose your path and mission field layout to make your run as time efficient as possible. Make sure to use the word efficiency and formula in your answer.
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Question 3 Science	Calculate the work your robot did on the wall as it hit the bump sensor. Make sure to show ALL of your steps you took to get to your answer ($W = F \times D$).
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Question 3 Math	Circle the correct answer. The number of missions you succeed in is a <u>discrete/continuous</u> value. The time your robot took is a <u>discrete/continuous</u> value.
Question 4 Science	What side effects did see as a result of some of your attempts to achieve your desired outputs? What was the cause of these side effects?