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Intro to Programming – C++

Homework Assignment – Lesson 3

09/15/2012

1)

How to find the totalVolume of helium needed to inflate the numberOfBalloons purchased that are all the same size.

Input: balloonRadius, numberOfBalloons

Processing: balloonVolume, PI

Output : totalVolume

Algorithm:

1. Input the balloonRadius and numberOfBalloons purchased
2. Find the balloonVolume by using the following formula
   1. balloonVolume = ((((balloonRadius \* balloonRadius \* balloonRadius)\* 4) /3) \* PI)
3. Calculate the totalVolume by multiplying balloonVolume \* numberOfBalloons
4. Display the totalVolume on the screen

END

Desk Check:

numberOfBalloons baloonRadius PI balloonVolume totalVolume

6 9.0 3.141593 3053.62 18321.72

5 5.0 3.141593 523.6 2617.99