

Three Decimal Places

1. Diana the Decorator has 3 different numbers, but has hidden them under a layer of paint. She has given a clue for each of her numbers below.

She says,



I have not used the same digit more than twice in my 3 numbers. The digit sums of each of my numbers give the same total when added together.



What could Diana's 3 numbers be? Explore the different possible solutions.

DP

2. Help! Stratos the Spartan has been tasked to slay a deadly gorgon.

He enters the maze with a starting number of 96.508, but in order to avoid alerting the creature, he must reach a number between 100.5 to 109.9 to exit the maze.



Add 7.119	Add 9.9	Subtract 17.83	Add 6.7	Add 19.291
Subtract 6.9	Add 6.3	Add 19.52	Subtract 9.27	Add 14.75
Subtract 5.86	Subtract 6.75	Subtract 12.859	Add 13.551	Subtract 28.76
Add 0.639	Add 12.4	Subtract 31.9	Add 21.89	Add 16.853
Add 1.999	Add 10.7	Subtract 10.01	Subtract 11.8	Add 2.9



Investigate the different possible routes Stratos could take in order to reach his target number. He can only enter the maze from the right and exit from the left.

DP