

# MATH MYSTERY:

## THE CASE OF MEAN MOUNTAIN

Date: \_\_\_\_\_

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It's been over fifty years that someone dared visit the park grounds of Wonder World. For those of you who are not aware of the abandoned amusement park, it was closed off due to an unresolved recurring dilemma with a large ride identified as the 'Mean Mountain.'

Many years ago, some folks who rode the Mean Mountain ride, vanished without a trace! The carriage would accelerate speed to 66 miles per hour as it entered the dark tunnel of the mountain. If it reached precisely that speed, no one would come out the other side of the mountain tunnel!

After Mathattan officials prohibited the ride from operating, several detectives and curious individuals ventured into the mysterious mountain hoping to find some answers. Unfortunately, none of them were able to explain the absurd disappearance of the carriages full of people. The only interesting fact that was observed was that if the carriage reached 67 miles per hour at the time of tunnel entry, people were safe. Also, if the carriage reached 65 miles per hour, people were safe. But, not 66 miles! Unfortunately, the variations of carriage speed were not entirely manageable, making it necessary to shut down the ride before more people were lost to the Mean Mountain!

Feeling as those the amusement park was somehow responsible for the disappearance of all those people, the community protested Wonder World's immediate shutdown. So, the park had no choice but to barricade the park entry, leaving it to rot. Demolishing the park was out of the question; just in case those people were ever able to come back home. But, till this day, no one has.

Over the years, many Mathattan citizens forgot about Wonder World and the Mean Mountain. Whispers of its atrocities have left some to believe it only to be a myth to scare children. That was until yesterday when a group of kids decided that they wanted to prove that the Mean Mountain was all a hoax. The daring kids managed to get the ride working and ventured deep into Mean Mountain's tunnel of darkness. Unfortunately, the kids who went on that ride disappeared too! The one left behind watching in shock and horror reported the incident! That same person happened to be one of Mathattan's brilliant Math Detectives. So, It seems that one of our best Math Detective's is taking on the case of Mean Mountain; determined to save their friends and all victims! Finally, there might be hope for everyone!

**Don't look away!**  
**Yes, the brilliant Math Detective is you!**

After seeing the disappearance of your friends into Mean Mountain, you gather your wits, courage, and perseverance to crack this old unresolved case!

As you begin your investigation, a peculiar character pops out of nowhere to greet you, "Hello! You know that no one has ever been able to solve the mystery behind the Mean Mountain. We need to figure out who caused the problem to get to the bottom of this mess. Beware! It's dark inside the mountain tunnel! Take a torch! Good luck, Detective!"

Name: \_\_\_\_\_

# POSSIBLE SUSPECTS

Suspect	Job Title	Hideout	Used	Special device needed to fix
Professor Peach	Scientist	Secret Lab	Flux Transmitter	Glimmer Ore
Dr. Pepper	Scientist	Space Station	Vacuum Jumper	Wishing Wagon
Emmet Effort	Inventor	Garage	Flux Transmitter	Stint Shifter
Gimpy the Goblin	Inventor	Garage	Mirrored Hole	Vortex Shifter
Hilda the Dwarf	Miner	Cave	Geostep	Rock Connector
Wally Winkles	Inventor	Space Station	Vacuum Jumper	Epoch Detangler
Larry the Wizard	Sorcerer	Tower	Void Portal	Magic Detangler
Drugar the Dwarf	Miner	Tower	Void Portal	Flashback Spell
Sheldon the Shaman	Sorcerer	Cave	Teleportation Spell	U-turn Spell
Martin McWhy	Scientist	Garage	Vacuum Jumper	Dezorean Shifter
Dr. Victor Frankenstein	Inventor	Secret Lab	Mirrored Hole	Lighting Shifter
Dexter Fluke	Inventor	Secret Lab	Vacuum Jumper	Clock Connector
Viessa the Elf	Sorcerer	Cave	Teleportation Spell	Magnet Ore
Dr. Emily Brown	Inventor	Garage	Flux Transmitter	Hoverboard Shifter
Tabitha the Witch	Sorcerer	Cave	Vacuum Jumper	Fusion Connector
Klenzap the Gnome	Miner	Tower	Geostep	Plasma Ore
Dr. Hank Wu	Scientist	Space Station	Mirrored Hole	Motion Shifter
Bumblebore	Sorcerer	Cave	Void Portal	Atomic Shifter
Mex Luther	Scientist	Space Station	Mirrored Hole	Liptinite Ore
Dr. George Grief	Scientist	Cave	Flux Transmitter	Warp Connector
Anastasia Stone	Sorcerer	Garage	Teleportation Spell	Twisted Ore
Aeon the Robot	Scientist	Space Station	Vacuum Jumper	Nova Detangler

Solve the clues and then cross the suspects off the list until only one suspect remains! The last suspect remaining created the Mean Mountain phenomenon. Finding who created is the key to figuring out how to save the victims of the ride.

Whole rows must be eliminated at a time.

# CALCULATE THE MEDIAN – CLUE 1

Calculate the **median** of each set of numbers to reveal the first clue. Use your answers to match and place the letters in the boxes to see what you discover! Put the letter in every box that it matches your answer in (there may be more than one!)

The first one is already done.

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11    14.5

	<b>S</b>
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11    3

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7    16.5    14.5

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4

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10    12.5    4    12    6

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16.5    12

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4

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11.5    7    16.5    5    2.5

<b>S</b>		<b>S</b>				
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3    7.5    3    14    2.5    8    14.5



**Calculate the MEDIAN of each set of numbers below.**

2, 3, 5, 5, 1, 2, 3, 3

Median -  $\frac{3}{\text{S}}$

4, 6, 1, 2, 2, 6, 4, 4

Median -  $\frac{\text{A}}{\text{A}}$

7, 4, 6, 6, 1, 1, 5, 5

Median -  $\frac{\text{M}}{\text{M}}$

2, 6, 4, 6, 7, 9

Median -  $\frac{\text{F}}{\text{F}}$

3, 9, 7, 6, 8, 9, 9, 8

Median -  $\frac{\text{C}}{\text{C}}$

10, 11, 9, 16, 11, 12, 14

Median -  $\frac{\text{I}}{\text{I}}$

12, 10, 9, 11, 3

Median -  $\frac{\text{D}}{\text{D}}$

14, 15, 14, 9, 1

Median -  $\frac{\text{P}}{\text{P}}$

7, 4, 16, 7, 6

Median -  $\frac{\text{N}}{\text{N}}$

2, 3, 12, 9, 10

Median -  $\frac{\text{A}}{\text{A}}$

1, 3, 5, 3, 2, 2

Median -  $\frac{\text{E}}{\text{E}}$

14, 3, 18, 15, 3, 17

Median -  $\frac{\text{T}}{\text{T}}$

17, 2, 15, 10, 16, 6

Median -  $\frac{\text{W}}{\text{W}}$

19, 9, 20, 17, 15, 16

Median -  $\frac{\text{O}}{\text{O}}$

10, 2, 17, 18, 4, 14, 8, 17

Median -  $\frac{\text{R}}{\text{R}}$

6, 14, 12, 8, 2, 18, 7, 4

Median -  $\frac{\text{U}}{\text{U}}$

4, 19, 17, 3, 12, 20, 5, 11

Median -  $\frac{\text{G}}{\text{G}}$