

# MATH MYSTERY

CASE OF THE

Mean  
Mountain

GRADE

6



Mean, Median & Mode Review



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# Teacher Resource Instructions

## PREPARATION

Print and copy pages 4-11 for your students. You can do either of the following:

- Combine the pages to form a booklet for each student to work on; OR
- Hand out worksheets as you want students to work on them – please note that if you choose this option, students will always need the 'Possible suspects' page handy.
- I recommend carrying out a demonstration and a lesson on the math skill before completing a clue if it is a concept not yet don't or is something that your students are struggling with.
- You could get students to work independently or in pairs/groups. This also works well for sub tubs, early finisher tasks, math centers, and enrichment groups.

**IMPORTANT: The clues must be completed in the order I have arranged them in:1-5!**

**If you prefer not to complete them in the same order, then please Carry out the elimination process after all five clues are unlocked.**

## HOW TO USE

Read through the article on page 4 'Math Mystery: The Case of Mean Mountain' to set up the activity and engage students.

Instruct students that they will need to keep referring back to their Possible Suspects list after solving each clue.

Students work through each clue, either guided by the teacher or independently (your choice). After completing a math worksheet, if students completed the questions correctly, a clue will be revealed. For example: 'It is not a dwarf or gnome suspect.' So, in this example, students must cross off all rows with suspects that are marked as a dwarf or gnome.

After completing all of the clues, if done correctly, only one suspect row will remain on the list, and that is culprit along with the correct device to fix! On page 11, the teacher ticks off the 'Well done . . . ' box and the student can receive an Award (provided on page 18) if they declare the correct answer to the mystery. If a student gets the wrong answer, tick the second box "Oops! Try again," and instruct the student to go over their work to see where they went wrong.

## ANSWERS

I have provided answer sheets for all of the clues, as well as the answer to the whole mystery. You will find these on pages 12-17. This includes the elimination process guide of rows.

## AWARDS

On page 18 you will find awards that you can print and give to students who solve the case correctly. I suggest making it a rule that students complete all of the questions on each worksheet to be eligible for the award (even if they can guess what the clue is without finishing all of the math questions!). You could also make it a condition that students show their working out on the back of the page or on a separate piece of paper if applicable.

**If you need help, have any questions, or notice an error in my work please email me on**

**[JJResourceCreations@gmail.com](mailto:JJResourceCreations@gmail.com)**

**Thanks! 😊**

# MATH MYSTERY:

## THE CASE OF MEAN MOUNTAIN

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

---

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.

--	--

11    14.5

	<b>S</b>
--	----------

11    3

--	--	--

7    16.5    14.5

--

4

--	--	--	--	--

10    12.5    4    12    6

--	--

16.5    12

--

4

--	--	--	--	--

11.5    7    16.5    5    2.5

<b>S</b>		<b>S</b>				
----------	--	----------	--	--	--	--

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 - 3  
**S**

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

Median -    
**A**

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

Median -    
**M**

2, 6, 4, 6, 7, 9

Median -    
**F**

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

Median -    
**C**

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

Median -    
**I**

12, 10, 9, 11, 3

Median -    
**D**

14, 15, 14, 9, 1

Median -    
**P**

7, 4, 16, 7, 6

Median -    
**N**

2, 3, 12, 9, 10

Median -    
**A**

1, 3, 5, 3, 2, 2

Median -    
**E**

14, 3, 18, 15, 3, 17

Median -    
**T**

17, 2, 15, 10, 16, 6

Median -    
**W**

19, 9, 20, 17, 15, 16

Median -    
**O**

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

Median -    
**R**

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

Median -    
**U**

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

Median -    
**G**

# CALCULATE THE MEAN – CLUE 2

Calculate the **mean** of each set of numbers to reveal a 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.

<input type="text"/>	<b>I</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
9	10	17	26	9	12	3.5	52.5	8.5	7	37	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<b>I</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
17	12	3.5	32	74	4	10	17	17	9	12	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
13	3.5	11	7	7	4	5	7	4	22	9	12
<input type="text"/>	<input type="text"/>	<input type="text"/>	<b>I</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
11.5	12	4	10	12	12	11.5	12	9	12.5		
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
26	11.5	8.5	9	3	3.5	74	7	74	9	12.5	



## Calculate the MEAN of each set of numbers below.

19, 5, 9, 12, 10, 5 Mean - $\frac{10}{\quad}$ <b>I</b>	2, 5, 4, 3, 1 Mean - $\frac{\quad}{\quad}$ <b>W</b>	6, 3, 5, 2, 4 Mean - $\frac{\quad}{\quad}$ <b>M</b>	6, 8, 9, 5 Mean - $\frac{\quad}{\quad}$ <b>U</b>
11, 9, 17, 2, 6, 9 Mean - $\frac{\quad}{\quad}$ <b>E</b>	2, 7, 8, 16, 17, 18, 12, 16 Mean - $\frac{\quad}{\quad}$ <b>R</b>	9, 9, 18, 2, 12, 1, 2, 15 Mean - $\frac{\quad}{\quad}$ <b>L</b>	6, 15, 10, 17, 7, 9, 15, 9 Mean - $\frac{\quad}{\quad}$ <b>C</b>
9, 16, 18, 6, 16 Mean - $\frac{\quad}{\quad}$ <b>V</b>	20, 10, 20, 50, 60 Mean - $\frac{\quad}{\quad}$ <b>N</b>	5, 5, 5, 6, 4 Mean - $\frac{\quad}{\quad}$ <b>J</b>	90, 60, 60, 70, 90 Mean - $\frac{\quad}{\quad}$ <b>S</b>
25, 20, 20, 15, 5 Mean - $\frac{\quad}{\quad}$ <b>T</b>	2, 4, 4, 8, 2, 1 Mean - $\frac{\quad}{\quad}$ <b>A</b>	36, 6, 32, 30, 26 Mean - $\frac{\quad}{\quad}$ <b>H</b>	42, 43, 21, 50, 29 Mean - $\frac{\quad}{\quad}$ <b>X</b>
14, 12, 12, 10, 9, 12 Mean - $\frac{\quad}{\quad}$ <b>O</b>	50, 65, 45, 54, 49, 52 Mean - $\frac{\quad}{\quad}$ <b>F</b>	24, 26, 22, 22, 21, 17 Mean - $\frac{\quad}{\quad}$ <b>P</b>	9, 10, 10, 11, 15, 20 Mean - $\frac{\quad}{\quad}$ <b>D</b>

# CALCULATE THE MODE – CLUE 3

Calculate the **mode** of each set of numbers to reveal a 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.

7	4	6

27	3	10	34	7	55

					<b>C</b>	
9	3	9	20	6	2	7

10	9

1	72	7

4	10	18	10	1	27

10	1

5

			<b>C</b>	
9	20	5	2	6

9	7	5	7	10	72	1

## Calculate the MODE of each set of numbers below.

2, 2, 3, 4, 3, 2, 1
Mode - <u>2</u> <b>C</b>

1, 3, 5, 6, 5, 1, 5, 7
Mode - _____ <b>A</b>

2, 4, 2, 3, 3, 1, 3, 4
Mode - _____ <b>U</b>

9, 6, 8, 4, 6, 10, 2, 1
Mode - _____ <b>E</b>

11, 10, 12, 10, 9, 14
Mode - _____ <b>I</b>

34, 20, 55, 2, 16, 20
Mode - _____ <b>P</b>

7, 11, 10, 7, 10, 7, 4, 10, 12, 8, 7, 7, 6
Mode - _____ <b>T</b>

65, 55, 34, 34, 65, 43, 26, 34, 51
Mode - _____ <b>L</b>

12, 15, 9, 12, 1, 9, 18, 16, 9, 8, 11
Mode - _____ <b>S</b>

8, 11, 4, 4, 7, 5, 4, 6, 4, 11, 7, 4
Mode - _____ <b>H</b>

30, 65, 55, 55, 65, 55, 35, 55, 55, 54, 30
Mode - _____ <b>Y</b>

72, 77, 70, 77, 71, 73, 71, 70, 72, 72
Mode - _____ <b>O</b>



18, 15, 5, 16, 17, 19, 20, 18, 11, 14
Mode - _____ <b>D</b>

24, 20, 27, 29, 27, 23, 20, 21, 25, 27
Mode - _____ <b>G</b>

1, 9, 1, 1, 9, 9, 1, 1, 2
Mode - _____ <b>N</b>



# CALCULATE THE MEAN, MEDIAN, & MODE – CLUE 4

Calculate the **mean**, **median** and **mode** as instructed for the sets of numbers to reveal a 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!)

--	--	--	--

49    25.5    49    12

--	--

25.5    28

--	--	--

14    54    12



--	--	--	--	--	--	--

62    54    24.5    28    14    12    29.5

--	--	--	--	--	--	--

48    12    19    24.5    25    12    62

--	--	--	--

9    24.5    42.5    42.5

--	--	--

28    24.5    27

--	--	--

14    54    12

--	--	--	--	--	--	--

26    29.5    25.5    34    42.5    12    50

## Calculate the MEAN of each set of numbers below.

40, 43, 42, 43, 47, 40	
Mean - _____	<b>L</b>

52, 56, 56, 56, 55, 49	
Mean - _____	<b>H</b>

28, 27, 23, 22, 18, 29	
Mean - _____	<b>I</b>

17, 54, 26, 33, 18, 20	
Mean - _____	<b>F</b>

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

14, 11, 5, 16, 15, 12, 1	
Median - _____	<b>E</b>

28, 34, 25, 33, 31, 26	
Median - _____	<b>R</b>

17, 18, 45, 28, 16, 20	
Median - _____	<b>V</b>

67, 59, 58, 65, 66, 58	
Median - _____	<b>S</b>

## Calculate the MODE of each set of numbers below.

27, 28, 19, 28, 22, 27, 29, 19, 27, 21	
Mode - _____	<b>X</b>

16, 3, 14, 14, 4, 3, 14, 15, 11, 16, 4	
Mode - _____	<b>T</b>

9, 17, 5, 12, 9, 5, 15, 9, 17, 11, 9, 8, 10, 6, 9, 5	
Mode - _____	<b>W</b>

36, 36, 34, 33, 36, 34, 33, 34, 38, 34, 35, 33	
Mode - _____	<b>B</b>

## Calculate the MEAN, MEDIAN & MODE of each set of numbers below

25, 20, 21, 26, 25, 24, 26, 26, 29, 28, 20, 30			
Mean - _____	<b>C</b>	Median - _____	<b>O</b>
Mode - _____	<b>P</b>		

48, 50, 51, 44, 43, 44, 50, 50, 42, 54, 52, 48			
Mean - _____	<b>D</b>	Median - _____	<b>N</b>
Mode - _____	<b>M</b>		

# CALCULATE THE MEAN, MEDIAN, & MODE – CLUE 5

Calculate the **mean**, **median** and **mode** as instructed for the sets of numbers to reveal a 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!)

--	--	--	--	--	--	--	--	--

37    25    75    25    25.5    48    25    49    75.5    39

--	--	--	--	--	--	--	--

12    37    59.5    59.5    48    70    39    48    49    50    16

--	--	--	--	--	--	--	--	--	--	--	--	--

48    20    59    48    39    75    26    48    25    49    75    25    58

--	--	--	--	--	--	--	--

12    75    49    14.5    49    14.5    48    39    75    30    48

## Calculate the MEAN, MEDIAN & MODE of each set of numbers below

35, 2, 3, 30, 23, 12, 14, 15, 12, 17, 20, 9

Mean -       Median -

Mode -

30, 40, 22, 32, 41, 56, 62, 34, 30, 45, 46, 30

Mean -       Median -

Mode -

60, 58, 54, 58, 58, 62, 62, 65, 58, 60

Mean -       Median -

Mode -

48, 50, 51, 44, 43, 44, 50, 50, 42, 54, 52, 48

Mean -       Median -

Mode -

25, 20, 21, 26, 25, 24, 26, 26, 29, 28, 20, 30

Mean -       Median -

Mode -

72, 80, 70, 75, 78, 76, 70, 74, 77, 77, 70, 81

Mean -       Median -

Mode -

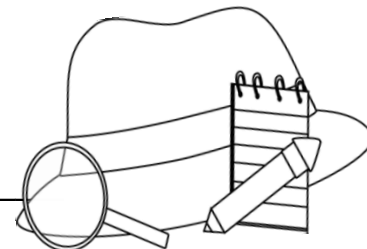
20, 21, 20, 26, 25, 24, 26, 20, 19, 16, 12, 11

Mean, Median, and Mode all =



# SOLVE THE MYSTERY: THE CASE OF MEAN MOUNTAIN

Detective



\_\_\_\_\_

(your name)

Has discovered that the character responsible for the Mean Mountain ride disappearances is:

\_\_\_\_\_

And the device to help all of the victims return home is:

Teacher to check and tick

Clues Checklist:

Clue 1

Clue 2

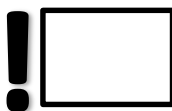
Clue 3

Clue 4

Clue 5

Well done, you figured out who is responsible for the Mean Mountain ride disappearances! You arrest the guilty suspect for the crime and give an extended sentence for not owning up. Luckily, you also successfully discovered that there is a way to bring back every person who ever disappeared on the ride. Remarkably, it turns out they were all sent to a date in the future!

Within a few days, you manage to bring everyone back in time and return them to the date they disappeared. For some, that was many years ago. Relieved that you were able to close this unresolved case, everyone thanks you and proclaims you the best detective in Mathattan!



Oops! No that is not the one who is responsible for the Mean Mountain disappearances. Go over your work, check your clues, and try again.

# ANSWER SHEET – CLUE 1

*Eliminate all rows with suspects who are a dwarf or gnome character. (Check first column with name)*

I	T	I	S	N	O	T	A
11	14.5	11	3	7	16.5	14.5	4

D	W	A	R	F	O	R	A
10	12.5	4	12	6	16.5	12	4

G	N	O	M	E	S	U	S	P	E	C	T
11.5	7	16.5	5	2.5	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 -  $\frac{3}{S}$

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

Median -  $\frac{4}{A}$

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

Median -  $\frac{5}{M}$

2, 6, 4, 6, 7, 9

Median -  $\frac{6}{F}$

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

Median -  $\frac{8}{C}$

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

Median -  $\frac{11}{I}$

12, 10, 9, 11, 3

Median -  $\frac{10}{D}$

14, 15, 14, 9, 1

Median -  $\frac{14}{P}$

7, 4, 16, 7, 6

Median -  $\frac{7}{N}$

2, 3, 12, 9, 10

Median -  $\frac{9}{A}$

1, 3, 5, 3, 2, 2

Median -  $\frac{2.5}{E}$

14, 3, 18, 15, 3, 17

Median -  $\frac{14.5}{T}$

17, 2, 15, 10, 16, 6

Median -  $\frac{12.5}{W}$

19, 9, 20, 17, 15, 16

Median -  $\frac{16.5}{O}$

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

Median -  $\frac{12}{R}$

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

Median -  $\frac{7.5}{U}$

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

Median -  $\frac{11.5}{G}$

# ANSWER SHEET – CLUE 2

Eliminate all rows that DID NOT USE a Flux Transmitter, Vacuum Jumper, or Mirrored Hole.

E	I	T	H	E	R	A	F	L	U	X	
9	10	17	26	9	12	3.5	52.5	8.5	7	37	
T	R	A	N	S	M	I	T	T	E	R	
17	12	3.5	32	74	4	10	17	17	9	12	
V	A	C	U	U	M	J	U	M	P	E	R
13	3.5	11	7	7	4	5	7	4	22	9	12
O	R	M	I	R	R	O	R	E	D		
11.5	12	4	10	12	12	11.5	12	9	12.5		
H	O	L	E	W	A	S	U	S	E	D	
26	11.5	8.5	9	3	3.5	74	7	74	9	12.5	

Calculate the MEAN of each set of numbers below.

19, 5, 9, 12, 10, 5  
 Mean - 10  
 I

2, 5, 4, 3, 1  
 Mean - 3  
 W

6, 3, 5, 2, 4  
 Mean - 4  
 M

6, 8, 9, 5  
 Mean - 7  
 U

11, 9, 17, 2, 6, 9  
 Mean - 9  
 E

2, 7, 8, 16, 17, 18, 12, 16  
 Mean - 12  
 R

9, 9, 18, 2, 12, 1, 2, 15  
 Mean - 8.5  
 L

6, 15, 10, 17, 7, 9, 15, 9  
 Mean - 11  
 C

9, 16, 18, 6, 16  
 Mean - 13  
 V

20, 10, 20, 50, 60  
 Mean - 32  
 N

5, 5, 5, 6, 4  
 Mean - 5  
 J

90, 60, 60, 70, 90  
 Mean - 74  
 S

25, 20, 20, 15, 5  
 Mean - 17  
 T

2, 4, 4, 8, 2, 1  
 Mean - 3.5  
 A

36, 6, 32, 30, 26  
 Mean - 26  
 H

42, 43, 21, 50, 29  
 Mean - 37  
 X

14, 12, 12, 10, 9, 12  
 Mean - 11.5  
 O

50, 65, 45, 54, 49, 52  
 Mean - 52.5  
 F

24, 26, 22, 22, 21, 17  
 Mean - 22  
 P

9, 10, 10, 11, 15, 20  
 Mean - 12.5  
 D

# ANSWER SHEET – CLUE 3

**ELIMINATE ALL ROWS WITH THE HIDEOUT IN A SPACE STATION.**

T	H	E
7	4	6

G	U	I	L	T	Y
27	3	10	34	7	55

S	U	S	P	E	C	T
9	3	9	20	6	2	7

I	S
10	9

N	O	T
1	72	7

H	I	D	I	N	G
4	10	18	10	1	27

I	N
10	1

A
5

S	P	A	C	E
9	20	5	2	6

S	T	A	T	I	O	N
9	7	5	7	10	72	1

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

2, 2, 3, 4, 3, 2, 1
Mode - <u>2</u> C

1, 3, 5, 6, 5, 1, 5, 7
Mode - <u>5</u> A

2, 4, 2, 3, 3, 1, 3, 4
Mode - <u>3</u> U

9, 6, 8, 4, 6, 10, 2, 1
Mode - <u>6</u> E

11, 10, 12, 10, 9, 14
Mode - <u>10</u> I

34, 20, 55, 2, 16, 20
Mode - <u>20</u> P

7, 11, 10, 7, 10, 7, 4, 10, 12, 8, 7, 7, 6
Mode - <u>7</u> T

65, 55, 34, 34, 65, 43, 26, 34, 51
Mode - <u>34</u> L

12, 15, 9, 12, 1, 9, 18, 16, 9, 8, 11
Mode - <u>9</u> S

8, 11, 4, 4, 7, 5, 4, 6, 4, 11, 7, 4
Mode - <u>4</u> H

30, 65, 55, 55, 65, 55, 35, 55, 55, 54, 30
Mode - <u>55</u> Y

72, 77, 70, 77, 71, 73, 71, 70, 72, 72
Mode - <u>72</u> O

18, 15, 5, 16, 17, 19, 20, 18, 11, 14
Mode - <u>18</u> D

24, 20, 27, 29, 27, 23, 20, 21, 25, 27
Mode - <u>27</u> G

1, 9, 1, 1, 9, 9, 1, 1, 2
Mode - <u>1</u> N

# ANSWER SHEET – CLUE 4

Eliminate all rows with items marked with 'SHIFTER' under the 'Special device needed' column.

**N O N E**  
49 25.5 49 12

**O F**  
25.5 28

**T H E**  
14 54 12

**S H I F T E R**  
62 54 24.5 28 14 12 29.5

**D E V I C E S**  
48 12 19 24.5 25 12 62

**W I L L**  
9 24.5 42.5 42.5

**F I X**  
28 24.5 27

**T H E**  
14 54 12

**P R O B L E M**  
26 29.5 25.5 34 42.5 12 50

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

40, 43, 42, 43, 47, 40  
Mean - 42.5 **L**

52, 56, 56, 56, 55, 49  
Mean - 54 **H**

28, 27, 23, 22, 18, 29  
Mean - 24.5 **I**

17, 54, 26, 33, 18, 20  
Mean - 28 **F**

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

14, 11, 5, 16, 15, 12, 1  
Median - 12 **E**

28, 34, 25, 33, 31, 26  
Median - 29.5 **R**

17, 18, 45, 28, 16, 20  
Median - 19 **V**

67, 59, 58, 65, 66, 58  
Median - 62 **S**

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

27, 28, 19, 28, 22,  
27, 29, 19, 27, 21  
Mode - 27 **X**

16, 3, 14, 14, 4, 3,  
14, 15, 11, 16, 4  
Mode - 14 **T**

9, 17, 5, 12, 9, 5, 15, 9,  
17, 11, 9, 8, 10, 6, 9, 5  
Mode - 9 **W**

36, 36, 34, 33, 36, 34,  
33, 34, 38, 34, 35, 33  
Mode - 34 **B**

**Calculate the MEAN, MEDIAN & MODE of each set of numbers below**

25, 20, 21, 26, 25, 24, 26, 26, 29, 28, 20, 30  
Mean - 25 **C**      Median - 25.5 **O**  
Mode - 26 **P**

48, 50, 51, 44, 43, 44, 50, 50, 42, 54, 52, 48  
Mean - 48 **D**      Median - 49 **N**  
Mode - 50 **M**



# ANSWER SHEET – CLUE 5

Keep only the suspect remaining who is an Inventor. Eliminate the rest. After this point, only one character should remain on the list, this is the guilty suspect!

**A** **N** **I** **N** **V** **E** **N** **T** **O** **R**

37 25 75 25 25.5 48 25 49 75.5 39

**W** **A** **S**

12 37 59.5

**S** **E** **C** **R** **E** **T** **L** **Y**

59.5 48 70 39 48 49 50 16

**E** **X** **P** **E** **R** **I** **M** **E** **N** **T** **I** **N** **G**

48 20 59 48 39 75 26 48 25 49 75 25 58

**W** **I** **T** **H**

12 75 49 14.5

**T** **H** **E**

49 14.5 48

**R** **I** **D** **E**

39 75 30 48

**Calculate the MEAN, MEDIAN & MODE of each set of numbers below**

35, 2, 3, 30, 23, 12, 14, 15, 12, 17, 20, 9

Mean - 16 **Y**      Median - 14.5 **H**

Mode - 12 **W**

30, 40, 22, 32, 41, 56, 62, 34, 30, 45, 46, 30

Mean - 39 **R**      Median - 37 **A**

Mode - 30 **D**

60, 58, 54, 58, 58, 62, 62, 65, 58, 60

Mean - 59.5 **S**      Median - 59 **P**

Mode - 58 **G**

48, 50, 51, 44, 43, 44, 50, 50, 42, 54, 52, 48

Mean - 48 **E**      Median - 49 **T**

Mode - 50 **L**

25, 20, 21, 26, 25, 24, 26, 26, 29, 28, 20, 30

Mean - 25 **N**      Median - 25.5 **V**

Mode - 26 **M**

72, 80, 70, 75, 78, 76, 70, 74, 77, 77, 70, 81

Mean - 75 **I**      Median - 75.5 **O**

Mode - 70 **C**

20, 21, 20, 26, 25, 24, 26, 20, 19, 16, 12, 11

Mean, Median, and Mode all = 20

**X**

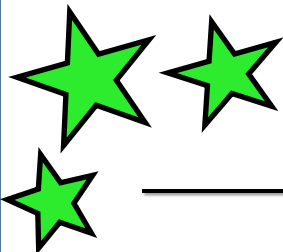
# ELIMINATION PROCESS

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

On the answer sheets you will find a comment about what needs to be crossed off. Please refer to the color of the font and the color of the shaded rows to show who has been crossed off from that clue. Whole rows must be eliminated at a time.

**MYSTERY ANSWER: DEXTER FLUKE**

# Super Detective Work!



Awarded To:

\_\_\_\_\_

For solving the Math Mystery:

***THE CASE OF MEAN MOUNTAIN***



# Super Detective Work!



Awarded To:

\_\_\_\_\_

For solving the Math Mystery:

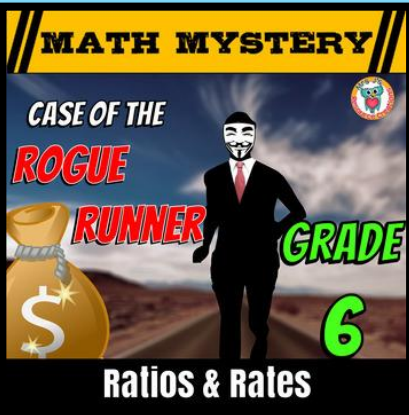
***THE CASE OF MEAN MOUNTAIN***





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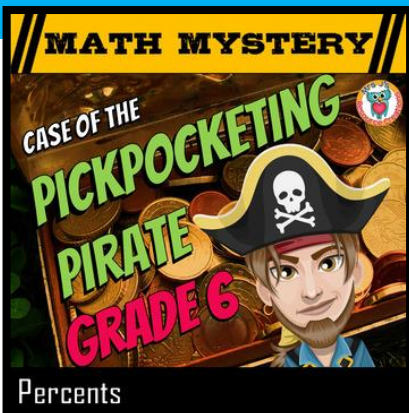
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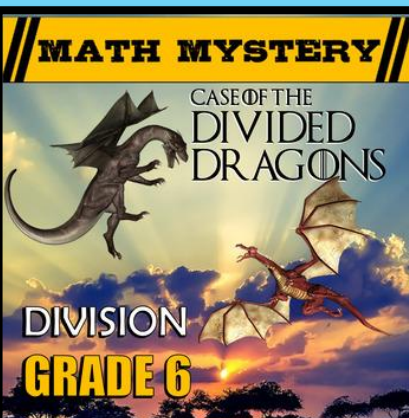
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Your students will be practicing percents to solve the Case of the Pickpocketing Pirate!

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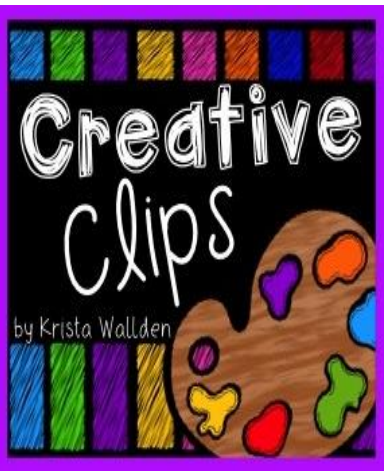


Your students will be dividing with whole numbers, decimals, and fractions to solve the Case of the Divided Dragons.

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# THANK YOU!