MATH MYSTERY

CASE OF THE

SUPER BAD SUPERHERO

GRADE 1

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Teacher Resource Instructions

PREPARATION

Print and copy pages 5-11 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.
- If it is a difficult skill or something not yet done with your students, demonstration and a lesson before completing that clue is recommended.
- You could get students to work independently, or in pairs/groups.
- Important details about each suspect on page 6 are in a box below each image. This information may be useful when eliminating from some clues.

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

HOW TO USE

Read through the article on page 5 'Math Mystery: Case of The Super Bad Superhero' 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. Whole rows must be eliminated at a time, the final row remaining will reveal who the super bad Superhero is.

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: 'A lady was able to scare off the antihero with cookies .' So, in this example, students can conclude that the super bad Superhero's weakness is cookies, so they must cross out all superheroes who do NOT have cookies as a weakness.

Once students have correctly completed all of the clues, only one suspect will remain, and that suspect is the super bad Superhero. On page 12, the teacher ticks off the '*Well done . . .* ' box and the student can receive an Award (provided on page 19) if they declare the correct suspect. If a student gets the wrong suspect, 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 who the super bad Superhero is. You will find these on pages 13-18. This includes the elimination process of rows post each clue.

AWARDS

On page 19 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

Thanks! ☺

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MATH MYSTERY: CASE OF THE SUPER BAD SUPERHERO

Date: _____

It is no secret that many superheroes reside on the island of Mathhattan. They usually help fight against crime and provide protection for us all. Sadly, something has changed and someone with superpowers is beginning to cause lots of trouble. This super bad superhero has begun to scare, intimidate and kidnap citizens! The police are powerless, and are unsure as to which superhero we can truly trust anymore...it could be any one of them! People no longer feel safe and are concerned this antihero is unstoppable.

Patrick, the Mayor of Mathhattan, addressed the public earlier this morning with the following speech:
"***Stay inside your homes, shut your windows and lock your doors, keep your phones handy for help and be wary of anyone wearing a mask. The MBI (Mathhattan Bureau of Investigation) and other secret sources have recently confirmed that this villain is actually one of who we call superheroes of Mathhattan. It is a mystery to us which superhero to trust and who we cannot. It is going to take some of our finest math detectives to work with the MBI on this serious case; no superhero can be involved. Hopefully, if we can discover who this terrible superhero is, we can put a stop to this chaos and release all of the captured citizens. Until we can reveal who is behind this, we ask that you hand over any evidence or information that you come across to help solve this mystery."***

As the mayor stepped off the podium, a large puff of smoke blasted out of nowhere! As the smoke began to settle a shadowy silhouette took hold of the mayor and before anyone could do anything. . . "POOF!" They both disappeared. The Mayor is now a prisoner of this super bad superhero.

MATH DETECTIVE NEEDED TO REVEAL THE SUPER BAD SUPERHERO!

The chaos continues throughout the town; the disguised antihero is doing a good job at keeping his/her identity hidden while scaring and capturing citizens. Everyone in Mathhattan is counting on you to take a closer look at all those we call superheroes and unveil the phony! Upon discovery, alert the good superheros as to who the villain is so that they can help with the arrest and rescue the trapped mayor and citizens!

Be careful not to become a victim yourself!

POSSIBLE SUSPECTS

Solve the clues and then cross the suspects off the list until one remains! The last suspect remaining is the Super Bad Superhero!

Dare Girl

Female ***Height:*** *Short*
Wears: *A Cape* ***Hair:*** *Red*
Moves: Fast
Can Fly? *YES*

Important information about each Superhero can be found in the box below his/her picture!

GOOD LUCK!

Super Bolt

Male ***Height:*** *Tall*
Wears: *A Mask* ***Hair:*** *Orange*
Moves: Slow
Can Fly? *NO*

Mrs. Amazing

Female ***Height:*** *Tall*
Wears: *A Mask* ***Hair:*** *Blue*
Moves: Fast
Can Fly? *NO*

Major Fury

Male ***Height:*** *Tall*
Wears: *A Cape* ***Hair:*** *Orange*
Moves: Fast
Can Fly? *NO*

Mega Mage

Male ***Height:*** *Tall*
Wears: *A Cape* ***Hair:*** *Green*
Moves: Slow
Can Fly? *NO*

Thunder Hawk

Male ***Height:*** *Tall*
Wears: *A Mask* ***Hair:*** *Purple*
Moves: Fast
Can Fly? *YES*

COUNTING (1-30) – CLUE 1

Crack the code by counting the number of dots in each box. Use your answers to match and place the letters in the boxes to reveal a clue. Put the letter in every box that it matches your answer in (there may be more than one!) The first one has been done for you.

		E
12	8	14

30	18	6

	E		
8	14	20	23

11	25

12	18	27	27

How many? 14 E

How many?_____ I

How many?_____ D

How many?_____ O

How many?_____ A

How many?_____ S

How many?_____ H

How many?_____ T

How many?_____ R

How many?_____ B

How many?_____ L

ADDING NUMBERS (up to 12) – CLUE 2

Crack the code by completing the addition questions below. Use your answers to match and place the letters in the boxes to reveal a clue. Put the letter in every box that it matches your answer in (there may be more than one!) The first one has been done for you.

5	8	11

10	9	7	5	2

			O
8	11	12	3

				O	
4	9	10	10	3	5

1	6	2

1 + 2 = 3 → O

6 + 1 = _____ → S

9 + 0 = _____ → A

4 + 1 = _____ → T

2 + 2 = _____ → C

12 + 0 = _____ → R

5 + 1 = _____ → L

10 + 1 = _____ → E

1 + 0 = _____ → F

8 + 2 = _____ → N

1 + 1 = _____ → Y

6 + 2 = _____ → H

SUBTRACTING NUMBERS – CLUE 3

Crack the code by completing the subtraction questions below. Use your answers to match and place the letters in the boxes to reveal a clue. Put the letter in every box that it matches your answer in (there may be more than one!) The first one has been done for you.

9	6	12

		I			
10	5	7	2	9	1

6	12	4	0

I	
7	11

3

8	3	2	12

7 - 0 = 7 → I

5 - 1 = _____ → R

3 – 2 = _____ → Y

12 - 0 = _____ → E

10 - 1 = _____ → T

5 - 2 = _____ → A

2 - 0 = _____ → L

6 - 1 = _____ → U

8 - 2 = _____ → H

11 - 0 = _____ → S

9 - 1 = _____ → M

12 - 2 = _____ → G

5 - 5 = _____ → O

ORDERING NUMBERS (1 - 25)– CLUE 4

Discover another clue by arranging the numbers below in order from **smallest to largest**. Cut out the numbers (paired with letters) at the bottom of the page, arrange and paste them in order from smallest to largest into the empty boxes to make the letters reveal a clue.

18 **A**	3 **E**	2 **H**	7 **E**	4 **S**	25 **E**	10 **A**	21 **A**	14 **R**
20 **S**	23 **A**	15 **O**	6 **P**	12 **H**	1 **T**	22 **C**	17 **E**	11 **D**
16 **W**	9 **B**	5 **U**	19 **R**	13 **E**	24 **P**	8 **R**		

COMPARING NUMBERS – CLUE 5

Discover the final clue about the Super Bad Superhero by looking at each boxed pair of numbers and circling the **smaller** number. Use your circled answers to match and place the letters in the boxes to reveal the clue. Put the letter in every box that it matches your answer in (there may be more than one!) The first one has been done for you.

T		
2	11	1

T							
2	1	7	7	6	24	9	1

11	1	7	4

14	4	20	1	19

19	9	4	10

Circle the *smaller* number in each box.

2 or 6 T	7 or 6 I	11 or 1 E	9 or 12 L
7 or 17 R	4 or 9 O	16 or 14 M	11 or 12 H
20 or 10 W	27 or 24 B	19 or 21 S	20 or 30 V

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SOLVE THE MYSTERY:
CASE OF THE SUPER BAD SUPERHERO

Detective

_____

(your name)

Has discovered that the super bad Superhero is:

_____

Teacher to check and tick

Clues Checklist:

Clue 1 ☐

Clue 2 ☐

Clue 3 ☐

Clue 4 ☐

Clue 5 ☐

☐ Well done! You have correctly revealed the identity of the Super Bad Superhero! Thanks to your brilliant math skills and detective work, the police were able to gather the real superheroes to help them capture the phony. Once they caught the antihero, all of the captured citizens were released from their imprisonment. All of the victims, including the Mayor, are very grateful for your help in setting them free and putting a stop to the Chaos in Mathhattan.

! ☐ Oops! No that is not the identity of the Super Bad Superhero.
Check your work and try again!

Name: _____ *Case of The Super Bad Superhero* Mrs J's Resource Creations ©

ANSWER SHEET – CLUE 1

Crack the code by counting the number of dots in each box. Use your answers to match and place the letters in the boxes to reveal a clue. Put the letter in every box that it matches your answer in (there may be more than one!) The first one has been done for you.

T	H	E
12	8	14

B	A	D
30	18	6

H	E	R	O
8	14	20	23

I	S
11	25

T	A	L	L
12	18	27	27

How many? 14 E

How many? 11 I

How many? 6 D

How many? 23 O

How many? 18 A

How many? 25 S

How many? 8 H

How many? 12 T

How many? 20 R

How many? 30 B

How many? 27 L

Cross off any heroes that are short.

ANSWER SHEET – CLUE 2

Crack the code by completing the addition questions below. Use your answers to match and place the letters in the boxes to reveal a clue. Put the letter in every box that it matches your answer in (there may be more than one!) The first one has been done for you.

T	H	E
5	8	11

N	A	S	T	Y
10	9	7	5	2

H	E	R	O
8	11	12	3

C	A	N	N	O	T
4	9	10	10	3	5

F	L	Y
1	6	2

Cross off any hero that can fly.

1 + 2 = 3 → O

6 + 1 = 7 → S

9 + 0 = 9 → A

4 + 1 = 5 → T

2 + 2 = 4 → C

12 + 0 = 12 → R

5 + 1 = 6 → L

10 + 1 = 11 → E

1 + 0 = 1 → F

8 + 2 = 10 → N

1 + 1 = 2 → Y

6 + 2 = 8 → H

ANSWER SHEET – CLUE 3

Crack the code by completing the subtraction questions below. Use your answers to match and place the letters in the boxes to reveal a clue. Put the letter in every box that it matches your answer in (there may be more than one!) The first one has been done for you.

T	H	E
9	6	12

G	U	I	L	T	Y
10	5	7	2	9	1

H	E	R	O
6	12	4	0

I	S
7	11

A
3

M	A	L	E
8	3	2	12

7 - 0 = 7 [I]

5 - 1 = 4 [R]

3 – 2 = 1 [Y]

12 - 0 = 12 [E]

10 - 1 = 9 [T]

5 - 2 = 3 [A]

2 - 0 = 2 [L]

6 - 1 = 5 [U]

8 - 2 = 6 [H]

11 - 0 = 11 [S]

9 - 1 = 8 [M]

12 - 2 = 10 [G]

5 - 5 = 0 [O]

Cross off any females remaining on the list.

ANSWER SHEET – CLUE 4

Discover another clue by arranging the numbers below in order from **smallest to largest**. Cut out the numbers (paired with letters) at the bottom of the page, arrange and paste them in order from smallest to largest into the empty boxes to make the letters reveal a clue.

1	2	3
T	**H**	**E**

4	5	6	7	8
S	**U**	**P**	**E**	**R**

9	10	11
B	**A**	**D**

12	13	14	15
H	**E**	**R**	**O**

16	17	18	19	20
W	**E**	**A**	**R**	**S**

21
A

22	23	24	25
C	**A**	**P**	**E**

Cross off all heroes who wear a mask.

ANSWER SHEET – CLUE 5

Discover the final clue about the Super Bad Superhero by looking at each pair of numbers and circling the **smaller** number. Use your circled answers to match and place the letters in the boxes to reveal the clue. Put the letter in every box that it matches your answer in (there may be more than one!) The first one has been done for you.

T	H	E
2	11	1

T	E	R	R	I	B	L	E
2	1	7	7	6	24	9	1

H	E	R	O
11	1	7	4

M	O	V	E	S
14	4	20	1	19

S	L	O	W
19	9	4	10

Circle the *smaller* number in each box.

2 or 6 → T	7 or 6 → I	11 or 1 → E	9 or 12 → L
7 or 17 → R	4 or 9 → O	16 or 14 → M	11 or 12 → H
20 or 10 → W	27 or 24 → B	19 or 21 → S	20 or 30 → V

At this stage of the mystery, there should only be two characters left. Cross out the one that moves fast. This should leave the one who moves slow last on the list . . . And that is the Super Bad Superhero!

ELIMINATION PROCESS

Dare Girl

Female ***Height:*** *Short*
Wears: *A Cape* ***Hair:*** *Red*
Moves: Fast
Can Fly? *YES*

Super Bolt

Male ***Height:*** *Tall*
Wears: *A Mask* ***Hair:*** *Orange*
Moves: Slow
Can Fly? *NO*

On the answer sheets you will find a comment about who needs to be crossed off. Please refer to the color of the font and the color of the cross on the picture profile to show who has been crossed off from that clue.

MYSTERY ANSWER:
Mega Mage

Mrs. Amazing

Female ***Height:*** *Tall*
Wears: *A Mask* ***Hair:*** *Blue*
Moves: Fast
Can Fly? *NO*

Major Fury

Male ***Height:*** *Tall*
Wears: *A Cape* ***Hair:*** *Orange*
Moves: Fast
Can Fly? *NO*

Mega Mage

Male ***Height:*** *Tall*
Wears: *A Cape* ***Hair:*** *Green*
Moves: Slow
Can Fly? *NO*

Thunder Hawk

Male ***Height:*** *Tall*
Wears: *A Mask* ***Hair:*** *Purple*
Moves: Fast
Can Fly? *YES*

Super Detective Work!

Awarded To:

For solving the Math Mystery:

Case of The Super Bad Superhero

Super Detective Work!

Awarded To:

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