MATH MYSTERY: CASE OF THE DIVIDED DRAGONS

Date: 

Three hundred years ago, the four great dragon leagues ended their war and made a peaceful pact. Instead, they began to work as a team in order to protect Mathhattan and its surrounding islands from an extremely mysterious and mighty magical underworld that lies beneath the surface. The Dragon Alliance have played a very important part towards keeping the strong forces of this powerful and unusual magic from being released into our realm.

Mathhattan's concern is on the rise as recent events reveal that the four dragon leagues are suddenly divided... they are at war once again. With the dragons not working together, the magical forces from the underworld will flow into ours and we are currently not protected. Larry the Wizard and Tabitha the Witch expressed that the Magical Elders' Council are extremely concerned by this division of the dragons. Larry exclaimed, "There are magical forces that we must keep from our cities such as Mathhattan. What lurks beneath the surface of our regular world needs to be kept there, if our two realms collide it could be disastrous! Our magical powers won't stand a chance next to what exists down there, and we fear that with the dragons focusing their anger on one another, there is no one else strong enough to protect us."

Sheldon the Shaman assisted by sending his magical winds into the underworld to get a better understanding of what is causing the dilemma amongst the dragons. He informed Larry and Tabitha, "The winds whisper to me that the division is definitely happening due to something making the dragons angry with each other. The conflict is not just between the four leagues; it is also within the leagues themselves. The winds say that one of the dragons is behind it, but who and why is unknown. If we are to investigate this mystery, we will need to travel into the magical underworld ourselves to explore for clues."

With the information Sheldon brought forward, Larry and Tabitha both agree that an investigation within the dragons needs to happen. Larry stated, "If we can solve which dragon started this problem and why, we may be able to help resolve the issue and restore the dragon alliance before too much threatening magic is released into our realm."

Larry, Tabitha and Sheldon are requesting the help of a great math detective to join them in their journey into the magical underworld to solve this mystery. Larry pleads, "Please help us with this mystery, it is important that we help reunite the dragons to work as one." Sheldon adds, "We will keep you protected as you assist us with this case."

ATTENTION MATH DETECTIVE: YOU'VE BEEN SUMMONED INTO THE MAGICAL UNDERWORLD TO SOLVE THE CASE OF THE DIVIDED DRAGONS
## Possible Suspects

<table>
<thead>
<tr>
<th>Suspect Dragon Name</th>
<th>Color of Scales</th>
<th>Dragon Type</th>
<th>League</th>
<th>What did they do to cause the conflict?</th>
<th>Motive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Draco The Destroyer</td>
<td>Blue</td>
<td>Arcane</td>
<td>The Champion Chasers</td>
<td>Stole the Grand Dragonian Diamond</td>
<td>Wants magic to be released everywhere</td>
</tr>
<tr>
<td>Silverscale The Victorious</td>
<td>Green</td>
<td>Shadow</td>
<td>The Dragons of the Veil</td>
<td>Puffed a curse of conflict</td>
<td>Wants to be the new dragon leader</td>
</tr>
<tr>
<td>Sudreth The Powerful</td>
<td>Blue</td>
<td>Elemental</td>
<td>The Ancient Warriors</td>
<td>Destroyed the Alliance Banner</td>
<td>Wants magic to be released everywhere</td>
</tr>
<tr>
<td>Kyloth The Magnificent</td>
<td>Gold</td>
<td>Arcane</td>
<td>The Mystic Faction</td>
<td>Puffed a curse of conflict</td>
<td>Wants revenge on the other dragons</td>
</tr>
<tr>
<td>Kennioth The Warrior</td>
<td>Green</td>
<td>Elemental</td>
<td>The Ancient Warriors</td>
<td>Destroyed the Alliance Banner</td>
<td>Wants to be the new dragon leader</td>
</tr>
<tr>
<td>Galzra The Protector</td>
<td>Red</td>
<td>Shadow</td>
<td>The Champion Chasers</td>
<td>Puffed a curse of conflict</td>
<td>Wants magic to be released everywhere</td>
</tr>
<tr>
<td>Tavorth The Grumpy</td>
<td>Red</td>
<td>Arcane</td>
<td>The Dragons of the Veil</td>
<td>Stole the Grand Dragonian Diamond</td>
<td>Wants to be the new dragon leader</td>
</tr>
<tr>
<td>Lissoth The Reckless</td>
<td>Gold</td>
<td>Elemental</td>
<td>The Ancient Warriors</td>
<td>Destroyed the Alliance Banner</td>
<td>Wants revenge on the other dragons</td>
</tr>
<tr>
<td>Apophis The Calm</td>
<td>Green</td>
<td>Shadow</td>
<td>The Champion Chasers</td>
<td>Stole the Grand Dragonian Diamond</td>
<td>Wants magic to be released everywhere</td>
</tr>
<tr>
<td>Miilith The Challenger</td>
<td>Gold</td>
<td>Shadow</td>
<td>The Mystic Faction</td>
<td>Puffed a curse of conflict</td>
<td>Wants revenge on the other dragons.</td>
</tr>
<tr>
<td>Norruth The Great</td>
<td>Red</td>
<td>Elemental</td>
<td>The Ancient Warriors</td>
<td>Destroyed the Alliance Banner</td>
<td>Wants revenge on the other dragons</td>
</tr>
<tr>
<td>Citithy The Eternal</td>
<td>Blue</td>
<td>Shadow</td>
<td>The Dragons of the Veil</td>
<td>Stole the Grand Dragonian Diamond</td>
<td>Wants to be the new dragon leader</td>
</tr>
<tr>
<td>Vanilith The Champion</td>
<td>Blue</td>
<td>Elemental</td>
<td>The Mystic Faction</td>
<td>Puffed a curse of conflict</td>
<td>Wants magic to be released everywhere</td>
</tr>
<tr>
<td>Dallarth The Fierce</td>
<td>Gold</td>
<td>Arcane</td>
<td>The Champion Chasers</td>
<td>Destroyed the Alliance Banner</td>
<td>Wants to be the new dragon leader</td>
</tr>
<tr>
<td>Favnir The Scary</td>
<td>Green</td>
<td>Shadow</td>
<td>The Ancient Warriors</td>
<td>Puffed a curse of conflict</td>
<td>Wants revenge on the other dragons</td>
</tr>
<tr>
<td>Parath The Mysterious</td>
<td>Gold</td>
<td>Elemental</td>
<td>The Ancient Warriors</td>
<td>Stole the Grand Dragonian Diamond</td>
<td>Wants magic to be released everywhere</td>
</tr>
<tr>
<td>Tiolth The Brave</td>
<td>Blue</td>
<td>Shadow</td>
<td>The Champion Chasers</td>
<td>Puffed a curse of conflict</td>
<td>Wants to be the new dragon leader</td>
</tr>
<tr>
<td>Ator The Clumsy</td>
<td>Red</td>
<td>Shadow</td>
<td>The Mystic Faction</td>
<td>Destroyed the Alliance Banner</td>
<td>Wants magic to be released everywhere</td>
</tr>
</tbody>
</table>

Solve the clues and then cross the dragons off the list until only one dragon remains! The last dragon remaining is the one responsible for the divided Dragon Alliance!

*Whole rows must be eliminated at a time.*
DIVISION WITH MODELS – CLUE 1

Discover an important clue by completing the division questions below, use the models to help work out the answer. Use your answers to match and place the letters in the boxes to reveal the first 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.

\[
\begin{align*}
6 \div 3 &= 2 \\
8 \div 2 &= ___ \\
10 \div 2 &= ___ \\
12 \div 1 &= ___ \\
32 \div 4 &= ___ \\
5 \div 5 &= ___ \\
9 \div 3 &= ___ \\
21 \div 3 &= ___ \\
20 \div 2 &= ___ \\
36 \div 6 &= ___ \\
22 \div 2 &= ___ \\
27 \div 3 &= ___ \\
15 \div 1 &= ___ \\
36 \div 2 &= ___ \\
28 \div 2 &= ___ \\
\end{align*}
\]
DIVIDING BY 2s, 3s, 4s & 5s – CLUE 2

Discover an important clue by completing the division questions. Use your 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.

6 ÷ 2 = _______  
14 ÷ 2 = _______  
24 ÷ 2 = _______  
  I  
  M  
  E

12 ÷ 3 = _______  
24 ÷ 3 = _______  
15 ÷ 3 = _______  
  D  
  R  
  T

4 ÷ 4 = _______  
40 ÷ 4 = _______  
8 ÷ 4 = _______  
  A  
  O  
  G

30 ÷ 5 = _______  
55 ÷ 5 = _______  
45 ÷ 5 = _______  
  B  
  C  
  L

15 ÷ 1 = _______  
40 ÷ 2 = _______  
60 ÷ 2 = _______  
  N  
  S  
  H
DIVIDING BY 6s, 7s, 8s & 9s – CLUE 3

Discover an important clue by completing the division questions. Use your 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.

6 ÷ 6 = _____

77 ÷ 7 = _____

16 ÷ 8 = _____

45 ÷ 9 = _____

320 ÷ 8 = _____

42 ÷ 6 = _____

21 ÷ 7 = _____

32 ÷ 8 = _____

72 ÷ 9 = _____

450 ÷ 9 = _____

54 ÷ 6 = _____

54 ÷ 6 = _____

84 ÷ 7 = _____

80 ÷ 8 = _____

54 ÷ 9 = _____

600 ÷ 6 = _____
DIVISION WORD PROBLEMS – CLUE 4

Crack the code by answering the division word problems. Use your answers (numbers only) to match and place the letters in the boxes to reveal a clue given by a witness from last night. Put the letter in every box that it matches your answer in (there may be more than one!)

Kylloth took 12 magic rocks and arranged them in 3 even piles. How many magic rocks did Kylloth put in each pile?

4 magic rocks

There are 45 baby dragons who need to sleep in a cave. If each cave can hold 5 baby dragons, how many caves are needed for all of the baby dragons?

A

Sheldon bought 12 muffins for the trip and divided them into 4 equal bags. How many muffins did Sheldon put in each bag?

L

Tabitha wrote 35 protection spells in her notebook. The notebook has 5 pages. If each page has the same number of spells, how many spells did Tabitha put on each page?

S

It takes Ator 6 minutes to polish a dragon scale. How many dragon scales can Ator clean in 72 minutes?

R

An enchanted boat can hold 4 people to cross the Forbidden River. If Sheldon, Larry, Tabitha and yourself need to cross the Forbidden River, how many enchanted boats will you need?

U

Galzra is packing dragon scales. He has 30 dragon scales and he divides the scales evenly among 5 boxes. How many dragon scales does Galzra put in each box?

E

50 magical creatures are planning to use magic pods to travel to the Earth’s surface. Each magic pod holds 10 creatures. How many magic pods are needed?

O

It takes Favnr 8 minutes to fly around the island of Mathhattan. How many laps can Favnr fly in 16 minutes?

N

Larry makes 40 health potions and packs them equally into 4 bags. How many health potions are in each bag?

B

Silverscale caught 77 fish during a 7 day hunt. If he caught the same number of fish each day, how many fish did Silverscale catch per day?

T

Lissoth distributed 48 dragon teeth evenly to 6 of his dragon friends. How many dragon teeth did each dragon friend get?

D

Peaches the fairy gifted you and your team 400 dragon diamonds. If they are split equally amongst 4 team members, how many dragon diamonds will each person receive?

G
### Case of the Divided Dragons

In the grid below you will find a number of statements collected from several creatures of the magical underworld, however, **only one of them is telling you the correct final clue.** Complete the division questions, and then look for your answer in the statement boxes and cross out that box (meaning that the statement in that box has been eliminated). The one statement box left standing after completing all of the questions, is the one with the correct clue!

<table>
<thead>
<tr>
<th>The guilty dragon belongs to The Dragons of the Veil league. He loves magic so much that he wants it to be released everywhere.</th>
<th>The dragon causing the division wants the current dragon leader to fall so that he can take his place.</th>
<th>The dragon culprit is in The Mystic Faction and wants revenge on the other dragons for teasing him.</th>
<th>The dragon responsible for the splitting up of the Dragon Alliance wants revenge on The Mystic Faction for excluding him from a hunt.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>12</strong></td>
<td><strong>9</strong></td>
<td><strong>10</strong></td>
<td><strong>4</strong></td>
</tr>
<tr>
<td>It is one of the dragons in The Champion Chasers league trying to use magic to take over the Earth’s surface.</td>
<td>You will find the dragon who raised the Dragon Alliance in The Ancient Warriors league.</td>
<td>One of green dragons has wanted to become the new dragon leader for a long time.</td>
<td>The Dragons of the Veil have been angry with the current dragon leader, so one of them decided to cause a problem to challenge the leadership position.</td>
</tr>
<tr>
<td><strong>1</strong></td>
<td><strong>8</strong></td>
<td><strong>11</strong></td>
<td><strong>5</strong></td>
</tr>
<tr>
<td>One of The Ancient Warriors wants revenge on the other dragons for not all equally helping out with tasks.</td>
<td>The dragon at fault wants to allow his magical creature friends of the underworld to live in the sunshine on the Earth’s surface.</td>
<td>The dragon that needs to be charged for dividing the dragon allies has red scales.</td>
<td>The Ancient Warriors league have a member that really wants to be the new dragon leader so that he can change some of the rules.</td>
</tr>
<tr>
<td><strong>7</strong></td>
<td><strong>6</strong></td>
<td><strong>3</strong></td>
<td><strong>2</strong></td>
</tr>
</tbody>
</table>

**Division Questions:**

- \(50 \div 10 = \_\_\_\_\_\_\_
- \(80 \div 10 = \_\_\_\_\_\_
- \(120 \div 10 = \_\_\_\_\_\_
- \(22 \div 11 = \_\_\_\_\_\_
- \(44 \div 11 = \_\_\_\_\_\_
- \(77 \div 11 = \_\_\_\_\_\_
- \(12 \div 12 = \_\_\_\_\_\_
- \(108 \div 12 = \_\_\_\_\_\_
- \(36 \div 12 = \_\_\_\_\_\_
- \(110 \div 10 = \_\_\_\_\_\_
- \(66 \div 11 = \_\_\_\_\_\_

**Dragons:**

- **Clue 1:**
- **Clue 2:**
- **Clue 3:**
- **Clue 4:**
- **Clue 5:**
- **Clue 6:**
- **Clue 7:**
- **Clue 8:**
- **Clue 9:**
- **Clue 10:**
SOLVE THE MYSTERY:
CASE OF THE DIVIDED DRAGONS

Detective

(your name)

Has discovered that the dragon responsible for breaking up the Dragon Alliance is:

Teacher to check and tick

Clues Checklist:

Clue 1

Clue 2

Clue 3

Clue 4

Clue 5

Well done! You have correctly revealed which dragon is responsible for the splitting up of the Dragon Alliance! Thanks to your brilliant math skills and detective work, Larry and Tabitha were able to confront the culprit and convinced the dragon to make things right again. Once the dragon did the right thing, all four of the dragon leagues became united once more to protect the barriers between our realm and the magical underworld. Everyone in Mathhattan and its surrounding islands feel safe again.

Oops! No that is not the dragon who is causing the divide amongst the dragons. Check your work and try again!
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

<table>
<thead>
<tr>
<th>Superhero Name</th>
<th>Main Superpower</th>
<th>Extra Superpower</th>
<th>Gender M/F</th>
<th>Hair Color</th>
<th>Weakness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lion Man</td>
<td>Super Speed</td>
<td>Shape Shifting</td>
<td>Male</td>
<td>Orange</td>
<td>Cookies</td>
</tr>
<tr>
<td>Dare Girl</td>
<td>Invisibility</td>
<td>Super Strength</td>
<td>Female</td>
<td>Purple</td>
<td>Silver</td>
</tr>
<tr>
<td>Mega Mage</td>
<td>Teleportation</td>
<td>Poisonous Burps</td>
<td>Male</td>
<td>Green</td>
<td>Cookies</td>
</tr>
<tr>
<td>Owl Man</td>
<td>Invisibility</td>
<td>Shape Shifting</td>
<td>Male</td>
<td>Purple</td>
<td>Sunlight</td>
</tr>
<tr>
<td>Blitzfire</td>
<td>Energy Blasts</td>
<td>Super Strength</td>
<td>Female</td>
<td>Orange</td>
<td>Silver</td>
</tr>
<tr>
<td>Thunder Hawk</td>
<td>Super Speed</td>
<td>Sonic Scream</td>
<td>Male</td>
<td>Purple</td>
<td>Sunlight</td>
</tr>
<tr>
<td>Razor</td>
<td>Energy Blasts</td>
<td>Sonic Scream</td>
<td>Male</td>
<td>Orange</td>
<td>Cookies</td>
</tr>
<tr>
<td>Starlight</td>
<td>Invisibility</td>
<td>Flight</td>
<td>Female</td>
<td>Green</td>
<td>Sunlight</td>
</tr>
<tr>
<td>Lady Bug</td>
<td>Teleportation</td>
<td>Shape Shifting</td>
<td>Female</td>
<td>Purple</td>
<td>Silver</td>
</tr>
<tr>
<td>The Giggler</td>
<td>Mind Control</td>
<td>Poisonous Burps</td>
<td>Male</td>
<td>Green</td>
<td>Cookies</td>
</tr>
<tr>
<td>Captain Nucleus</td>
<td>Super Speed</td>
<td>Flight</td>
<td>Male</td>
<td>Orange</td>
<td>Silver</td>
</tr>
<tr>
<td>Mrs. Amazing</td>
<td>Mind Control</td>
<td>Sonic Scream</td>
<td>Female</td>
<td>Purple</td>
<td>Sunlight</td>
</tr>
<tr>
<td>Doctor Bolt</td>
<td>Mind Control</td>
<td>Super Strength</td>
<td>Male</td>
<td>Orange</td>
<td>Silver</td>
</tr>
<tr>
<td>Splash</td>
<td>Energy Blasts</td>
<td>Poisonous Burps</td>
<td>Male</td>
<td>Orange</td>
<td>Cookies</td>
</tr>
<tr>
<td>Zapman</td>
<td>Teleportation</td>
<td>Flight</td>
<td>Male</td>
<td>Purple</td>
<td>Silver</td>
</tr>
<tr>
<td>Pizza Peter</td>
<td>Super Speed</td>
<td>Poisonous Burps</td>
<td>Male</td>
<td>Green</td>
<td>Sunlight</td>
</tr>
<tr>
<td>Titanicus</td>
<td>Energy Blasts</td>
<td>Super Strength</td>
<td>Male</td>
<td>Green</td>
<td>Cookies</td>
</tr>
<tr>
<td>Typhoon</td>
<td>Super Speed</td>
<td>Sonic Scream</td>
<td>Female</td>
<td>Orange</td>
<td>Silver</td>
</tr>
<tr>
<td>Blinker</td>
<td>Teleportation</td>
<td>Poisonous Burps</td>
<td>Female</td>
<td>Purple</td>
<td>Silver</td>
</tr>
<tr>
<td>Major Fury</td>
<td>Super Speed</td>
<td>Flight</td>
<td>Male</td>
<td>Green</td>
<td>Sunlight</td>
</tr>
<tr>
<td>Colossal Crush</td>
<td>Invisibility</td>
<td>Super Strength</td>
<td>Male</td>
<td>Green</td>
<td>Cookies</td>
</tr>
</tbody>
</table>

Solve the clues and then cross the suspect rows off the list until only one suspect remains! The last suspect remaining is the Super Bad Superhero behind the trouble in Manhattan!

Whole rows must be eliminated at a time.
CONVERT FROM EXPANDED FORM – CLUE 1

Discover an important clue by converting the numbers from expanded form to numerical form. Use your answers to match and place the letters in the boxes to reveal the first 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.

700 + 10 + 4 = \[\frac{714}{T}\]
100 + 80 + 1 = \[I\]
20 + 8 = \[E\]
400 + 20 + 9 = \[A\]
900 + 90 + 2 = \[F\]
100 + 60 + 4 = \[H\]
500 + 30 + 6 = \[N\]
100 + 1 = \[Y\]
200 + 50 + 3 = \[O\]
600 + 50 + 3 = \[C\]
200 + 30 + 9 = \[V\]
300 + 40 + 6 = \[L\]

Name: ____________________  Case of the Super Bad Superhero
Mrs J’s Resource Creations ©
ADDITION – CLUE 2

Solve another important clue by completing the addition questions. Use your 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.

\[\begin{array}{ccccccc}
62 & 173 & 178 & 639 & 37 & 327 & 49 & 49 \\
78 & 327 & 699 & 92 & 78 & 639 & 49 & \\
639 & 67 & 327 & 62 & 37 & 639 & 178 & 67 \\
178 & 49 & 62 & 356 & 62 & 320 & 327 & \\
\end{array}\]

\[\begin{array}{ccccccc}
12 & 35 & 24 & 61 & 36 & 54 \\
+ 25 & + 14 & + 43 & + 17 & + 26 & \underline{+ 38} \\
37 & \underline{N} & \underline{S} & \underline{H} & \underline{R} & \underline{A} & \underline{O} \\
145 & 301 & 645 & 108 & 236 & 131 & \underline{+ 225} \\
+ 33 & + 26 & + 54 & + 65 & + 84 & \underline{+ 225} \end{array}\]

\[\begin{array}{ccccccc}
256 & \underline{I} & \underline{E} & \underline{P} & \underline{W} & \underline{L} & \underline{M} \\
\end{array}\]

\[\begin{array}{ccccccc}
\end{array}\]
SUBTRACTION – CLUE 3

Solve another important clue by completing the subtraction questions. Use your 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.

\[
\begin{array}{cccc}
528 & 30 & 528 & 25 \\
411 & 528 & 112 \\
\end{array}
\]

\[
\begin{array}{cccc}
528 & 44 & 30 & 96 \\
112 & 218 & 528 & 12 \\
\end{array}
\]

\[
\begin{array}{cccc}
347 & 832 & 832 & 45 \\
45 & 267 & 96 \\
\end{array}
\]

\[
\begin{array}{cccc}
528 & 149 & 45 & 28 \\
112 & 28 & 45 & 267 \\
\end{array}
\]

\[
\begin{array}{cccc}
218 & 347 & 347 & 351 \\
427 & 875 & 138 & 580 \\
\end{array}
\]

\[
\begin{array}{cccc}
384 & 703 & 297 & 675 \\
126 & 352 & 148 & 579 \\
\end{array}
\]

\[
\begin{array}{cccc}
L & T & B & R \\
Y & I \\
W & F & S & A \\
H & C \\
D & K & N & E \\
\end{array}
\]

\[
\begin{array}{cccc}
45 & 67 & 94 & 23 \\
23 & 42 & 83 \\
42 & 83 \\
- 15 & - 22 & - 50 & - 11 \\
- 17 & - 55 \\
\end{array}
\]

\[
\begin{array}{cccc}
30 & L & B & R \\
- 16 & 875 & 138 & 580 \\
361 & 677 \\
- 43 & - 26 & - 52 & - 94 \\
- 459 \\
\end{array}
\]

\[
\begin{array}{cccc}
384 & 703 & 297 & 675 \\
126 & 352 & 148 & 579 \\
\end{array}
\]

\[
\begin{array}{cccc}
384 & 703 & 297 & 675 \\
126 & 352 & 148 & 579 \\
\end{array}
\]
MULTIPLYING BY 2s & 5s – CLUE 4

Solve another important clue by completing the multiplication questions. Use your 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.*

<table>
<thead>
<tr>
<th>2</th>
<th>16</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>4</td>
<td>14</td>
</tr>
<tr>
<td>30</td>
<td>20</td>
<td>10</td>
</tr>
<tr>
<td>35</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>6</td>
<td>22</td>
<td>25</td>
</tr>
<tr>
<td>18</td>
<td>12</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>12</td>
<td>30</td>
</tr>
<tr>
<td>20</td>
<td>12</td>
<td>15</td>
</tr>
</tbody>
</table>

| 2 \times 1 = | 2 |
| 2 \times 2 = | I |
| 2 \times 3 = | W |
| 2 \times 4 = | D |
| 5 \times 1 = | U |
| 5 \times 2 = | R |
| 5 \times 3 = | K |
| 5 \times 4 = | T |
| 2 \times 6 = | A |
| 2 \times 7 = | N |
| 2 \times 8 = | O |
| 2 \times 9 = | M |
| 5 \times 5 = | E |
| 5 \times 6 = | S |
| 5 \times 7 = | G |
| 5 \times 8 = | F |
| 2 \times 11 = | H |
**Case of the Super Bad Superhero**

**DIVIDING BY 2 — CLUE 5**

In the grid below you will find a number of statements being texted to you, however, only one of them is revealing the correct final clue. Complete the division questions, and then look for your answer in the statement boxes and cross out that box (meaning that the statement in that box has been eliminated). The one statement box left standing after completing all of the questions, is the one with the correct clue!

<table>
<thead>
<tr>
<th>The super bad superhero uses invisibility to shock people with sudden energy blasts coming out of nowhere.</th>
<th>The super bad superhero uses super strength to throw a magical trap on victims and then teleports them to a secret dungeon.</th>
<th>The super bad superhero casts icy energy blasts to make victims stick to the floor and uses mind control to make them walk back to wherever this strange imprisonment is.</th>
<th>The super bad superhero teleports behind victims and uses mind control to make them go to a prison of some sort.</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>3</td>
<td>2</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>The super bad superhero uses poisonous burps to weaken victims, then teleports to make a fast get away.</th>
<th>The super bad superhero uses super strength to lift cars with people in them and then uses the power of invisibility to make them disappear.</th>
<th>The super bad superhero uses invisibility to stealth through the streets and uses super strength to keep everyone away.</th>
<th>The super bad superhero uses electric energy blasts to destroy walls and then teleports victims inside to somewhere strange.</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>12</td>
<td>4</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>The super bad superhero uses poisonous burps to make people faint and then casts mind control to make them walk to the hidden prison.</th>
<th>The super bad superhero uses super speed to catch victims without no one else noticing, then teleports them somewhere secret.</th>
<th>The super bad superhero casts a sonic scream to stun everyone around, and then uses teleportation to make a quick get away.</th>
<th>The super bad superhero travels around like a bug and then shapeshifts into human form to cast poisonous burps on everyone.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9</td>
<td>10</td>
<td>8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>20 ÷ 2 =</th>
<th>8 ÷ 2 =</th>
<th>2 ÷ 2 =</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>4</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>16 ÷ 2 =</th>
<th>10 ÷ 2 =</th>
<th>24 ÷ 2 =</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>5</td>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12 ÷ 2 =</th>
<th>6 ÷ 2 =</th>
<th>18 ÷ 2 =</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>3</td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4 ÷ 2 =</th>
<th>14 ÷ 2 =</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>7</td>
</tr>
</tbody>
</table>
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!