

# MATH MYSTERY: CASE OF THE HEARTBREAK HITMAN



*February 14*

On Valentine's Day, Mathhattan is usually filled with love, kindness and romance, yet unfortunately this year the whole town is experiencing a very gloomy and sad Valentine's Day! A Valentine villain is on the loose, known as the Heartbreak Hitman, shooting people all over town with a Magic arrow that makes hearts turn dark. This is causing friendships to fall apart and couples to break up when they really didn't want to; now so many people are sitting alone on this day feeling depressed and broken hearted. Cupid has been trying to spread his arrows of love to fix the heartbreak, but unfortunately the Heartbreak Hitman works much faster, continuously undoing all of Cupid's hard work. If this hitman is not stopped soon, all of the love in Mathhattan will be completely lost!

Hear what some of the victims had to say earlier today:

**"I can't feel any love, my heart just feels like it is filled with sadness and no matter what I do I can't make it go away!"** Cried Linda.

Carl sadly retold his experience, **"Out of nowhere my girlfriend just broke up with me! It's like she changed in a flash! Once I heard about the Heartbreak Hitman running around town, I knew instantly that she had been struck by one of those loveless magic arrows."**

Lola explained, **"I ruined all of my friendships! It's like all of a sudden I've become this mean person and now I'm all alone!"**

Ronald exclaimed, **"Everyone is arguing and bickering all over town. People that were once happy together, seem to no longer even like each other. Someone needs to put a stop to this!"**

Mathhattan is in desperate need for help this Valentine's Day. The police are trying to find the Heartbreak Hitman; however, they are having a difficult time figuring out the identity of the villain. A great math detective is needed to help them solve this case!

## MATH DETECTIVE NEEDED TO SOLVE WHO THE HEARTBREAK HITMAN IS!

*The police have made a list of all the possible suspects who could be the Heartbreak Hitman. However, they urgently need a super math detective to help them solve this case!*

# POSSIBLE SUSPECTS LIST

Name	Gender	Tall/ Short	Hair Color	Eye Color	Wears a ...
Kyle Arrow	Male	Short	Black	Blue	Hat
Billy Wilson	Male	Tall	Brown	Brown	Hat
Kenny Meyers	Male	Tall	Blonde	Green	Watch
Talora Zamen	Female	Tall	Red	Green	Hat
Jackie Knapp	Female	Short	Red	Blue	Watch
Sonya Steel	Female	Tall	Brown	Brown	Watch
Craig Dupey	Male	Short	Blonde	Blue	Hat
Zissy Whittle	Female	Short	Black	Blue	Watch
Archie Hart	Male	Tall	Black	Brown	Watch
Marco Perez	Male	Short	Brown	Green	Watch
Miriam Nickel	Female	Tall	Red	Brown	Watch
Lily Vogel	Female	Tall	Blonde	Brown	Watch
Miri Lynn	Female	Short	Black	Brown	Watch
Shane Pratt	Male	Short	Red	Blue	Hat
Rose Ayers	Female	Short	Brown	Brown	Watch
Sasha Logan	Female	Tall	Black	Blue	Watch

**Solve the clues and then cross suspects off the list until one remains! The suspect remaining is the heartbreak hitman!**



# DIVIDE FRACTIONS & MIXED NUMBERS - CLUE 1

Crack the code by completing the division questions below. Reduce (Simplify) your answers and write it as a proper fraction or as a whole or mixed number! 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!



$\frac{5}{7}$	$\frac{2}{5}$	$\frac{8}{9}$

$\frac{2}{5}$	$\frac{8}{9}$	$\frac{1}{3}$	$\frac{5}{9}$	$\frac{5}{7}$	$\frac{4}{7}$	$\frac{5}{9}$	$\frac{8}{9}$	$\frac{1}{3}$	$1\frac{3}{8}$

$\frac{2}{5}$	$1\frac{4}{5}$	$\frac{5}{7}$	1	$\frac{1}{3}$	$\frac{7}{9}$

		<b>S</b>
$\frac{5}{6}$	$\frac{1}{3}$	$\frac{3}{5}$

<b>S</b>			
$\frac{3}{5}$	$\frac{8}{9}$	$\frac{8}{9}$	$\frac{7}{9}$

$\frac{5}{6}$	$\frac{8}{9}$	$\frac{1}{3}$	$\frac{5}{9}$	$1\frac{4}{5}$	$\frac{7}{9}$	$2\frac{5}{8}$	

$\frac{1}{3}$

$\frac{5}{6}$	$\frac{1}{3}$	$\frac{5}{7}$	$1\frac{1}{3}$	$\frac{2}{5}$

$$\frac{7}{10} \div 1\frac{1}{6} = \frac{3}{5} \quad \text{S}$$

$$\frac{5}{6} \div 1\frac{1}{2} = \quad \text{R}$$

$$2 \div 1\frac{1}{9} = \quad \text{I}$$

$$\frac{3}{5} \div 1\frac{4}{5} = \quad \text{A}$$

$$1\frac{1}{4} \div 1\frac{3}{4} = \quad \text{T}$$

$$1\frac{3}{4} \div 1\frac{3}{4} = \quad \text{M}$$

$$1\frac{7}{9} \div 2 = \quad \text{E}$$

$$2\frac{3}{4} \div 2 = \quad \text{K}$$

$$2\frac{4}{9} \div 1\frac{5}{6} = \quad \text{C}$$

$$2 \div 3\frac{1}{2} = \quad \text{B}$$

$$2\frac{1}{3} \div 3 = \quad \text{N}$$

$$3 \div 1\frac{1}{7} = \quad \text{G}$$

$$1\frac{1}{3} \div 1\frac{3}{5} = \quad \text{W}$$

$$\frac{3}{4} \div 1\frac{7}{8} = \quad \text{H}$$

