

Case-It

Crack The Case

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Case

Briefing

The infamous *Coefficient Killer* has been terrorizing the public for years, always leaving a signature calling card at each crime scene: **algebra equations**. According to an anonymous letter sent to police by the alleged killer, each equation is a clue to the killer's secret identity.

As the world's best detectives, it's up to you to solve the algebra problems, unscramble the letters, and crack the case.

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Lead Suspects



1 EVIL EDWARD

2 BRUTAL BILL

3 MANIAC MIKE

4 SHADY SADIE

5 TANTRUM TIM

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Crypto - Decoder

A ¹	B ²	C ³	D ⁴
E ⁵	F ⁶	G ⁷	H ⁸
I ⁹	J ¹⁰	K ¹¹	L ¹²
M ¹³	N ¹⁴	O ¹⁵	P ¹⁶
Q ¹⁷	R ¹⁸	S ¹⁹	T ²⁰
U ²¹	V ²²	W ²³	X ²⁴
	Y ²⁵	Z ²⁶	

Equation Set: Evil Edward

 Cut out cards and place in case folder

$$3x - 7 = 8$$

$$2x + 6 = 50$$

$$x/3 + 2 = 5$$

$$4x - 8 = 40$$

$$5x = 25$$

$$2x - 4 = 4$$

$$x - 9 = 14$$

$$3x + 5 = 8$$

$$2x = 36$$

$$x/2 + 1 = 3$$

Equation Set: Brutal Bill

 Cut out cards and place in case folder

$$x + 6 = 8$$

$$3x = 54$$

$$x - 7 = 14$$

$$2x + 4 = 44$$

$$5x - 4 = 1$$

$$4x = 48$$

$$x/2 + 1 = 2$$

$$3x - 6 = 21$$

$$2x - 6 = 18$$

$$x + 8 = 20$$

Equation Set: Maniac Mike

 Cut out cards and place in case folder

$$x + 3 = 16$$

$$2x - 1 = 1$$

$$3x + 2 = 44$$

$$x/3 + 2 = 5$$

$$5x = 5$$

$$2x - 3 = 3$$

$$x - 4 = 9$$

$$3x = 27$$

$$x + 6 = 17$$

$$2x + 1 = 11$$

Equation Set: Shady Sadie

 Cut out cards and place in case folder

$$2x + 1 = 39$$

$$x/2 + 4 = 8$$

$$3x = 3$$

$$x + 6 = 10$$

$$x - 5 = 20$$

$$3x + 4 = 61$$

$$2x - 1 = 1$$

$$4x - 12 = 4$$

$$x + 7 = 16$$

$$5x = 25$$

Equation Set: Tantrum Tim



Cut out cards and place in case folder

$$4x = 80$$

$$x + 3 = 4$$

$$2x + 6 = 34$$

$$5x - 5 = 95$$

$$3x = 54$$

$$x - 9 = 12$$

$$x + 7 = 20$$

$$2x = 40$$

$$3x - 3 = 24$$

$$4x + 1 = 53$$