**Math 6 - Unit 3: Expressions** Name:

*Get a* ***CLUE*** *(Translating Words to Math)*

Class Period: 1 2 3 4 Date:

**Who? Where? What?**

***Translate each written phrase to an algebraic expression. Then, check the answers on the back of the page to eliminate suspects and clues.***

|  |  |  |
| --- | --- | --- |
| 1) the difference of 15 and x | 2) the sum of 15 and x | 3) the product of 15 and x |
| 4) 15 split into x groups | 5) 15 minus the product of 2 and x | 6) 15 more than x squared |
| 7) 2 less than x | 8) x divided by 15, then subtract 2 | 9) 15 divided by 2 groups of x |
| 10) twice the sum of 15 and x | 11) x squared | 12) x less than $\frac{2}{15}$ |
| 13) x squared, then decreased by 15 | 14) the sum of x, 2, and 15 | 15) $\frac{2}{15}$ more than x |
| 16) 15 raised to the x power | 17) 2 more than the product of 15 and x | 18) 15 times x squared |
| 19) the product of 2 and x | 20) 15 less than twice x |  |

**Who?**

Joker

Maleficent

Voldemort

The Grinch

Wicked Witch of the West

Thanos

Pennywise

Regina George

**Where?**

Gotham City

Fairy Kingdom of Moors

Hogwarts

Whoville

Oz

Titan (Moon of Saturn)

Sewer

School Cafeteria

**What?**

Crowbar

Magic Spell

Mind Control

Stolen Gifts

Broom

Infinity Stones

Red Balloon



**Find your answers below to eliminate people, places and things to determine who did the crime, where they did it and what they did it with.**

|  |  |  |
| --- | --- | --- |
| **Joker****2x - 15** | **Maleficent****15 - x** | **Voldemort****x - 2** |
| **The Grinch**$\frac{2}{15}$ **- x** | **Wicked Witch****15x + 2** | **Thanos**$\frac{2}{15}$ |
| **Pennywise****15x** | **Regina George****15x** | **Gotham City****15x2** |
| **Fairy Kingdom****x2 + 15** | **Hogwarts**$\frac{15}{x}$ **+ 2** | **Whoville**$$\frac{15}{x}$$ |
| **Oz**$\frac{x}{15}$ **- 2** | **Titan (Saturn’s Moon)****2x** | **Sewer****15 – 2x** |
| **School Cafeteria**$\frac{15}{2x}$ | **Crowbar****2(15 + x)** | **Magic Spell****x + 2 + 15** |
| **Mind Control****x +** $\frac{2}{15}$ | **Stolen Gifts****x2** | **Broom****x2 - 15** |
| **Infinity Stones****15 + x** | **Red Balloon**$$\frac{2- x}{15}$$ |  |

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**Who?**

Joker

Maleficent

Voldemort

The Grinch

Wicked Witch of the West

Thanos

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Regina George

**Where?**

Gotham City

Fairy Kingdom of Moors

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**What?**

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Infinity Stones

Red Balloon



|  |  |  |
| --- | --- | --- |
| 1) the difference of 15 and x**15 - x** | 2) the sum of 15 and x**15 + x** | 3) the product of 15 and x**15x** |
| 4) 15 split into x groups**15/x** | 5) 15 minus the product of 2 and x**15 – 2x** | 6) 15 more than x squared**x2 + 15** |
| 7) 2 less than x**x - 2** | 8) x divided by 15, then subtract 2**x/15 - 2** | 9) 15 divided by 2 groups of x**15/2x** |
| 10) twice the sum of 15 and x**2(15 + x)** | 11) x squared**x2** | 12) x less than $\frac{2}{15}$**2/15 - x** |
| 13) x squared, then decreased by 15**x2 - 15** | 14) the sum of x, 2, and 15**x + 2 + 15** | 15) $\frac{2}{15}$ more than x**x + 2/15** |
| 16) 15 raised to the x power**15x** | 17) 2 more than the product of 15 and x**15x + 2** | 18) 15 times x squared**15x2** |
| 19) the product of 2 and x**2x** | 20) 15 less than twice x**2x - 15** |  |

**Who? Thanos Where? Hogwarts What? Red Balloon**

**Find your answers below to eliminate people, places and things to determine who did the crime, where they did it and what they did it with.**

**1**

|  |  |  |
| --- | --- | --- |
| **Joker****2x - 15** | **Maleficent****15 - x** | **Voldemort****x - 2** |
| **The Grinch****20**$\frac{2}{15}$ **- x** | **Wicked Witch****17****15x + 2** | **Thanos****7**$$\frac{2}{15}$$ |
| **Pennywise****12****3****15x** | **Regina George****15x** | **Gotham City****18****15x2** |
| **Fairy Kingdom****6****x2 + 15** | **Hogwarts****16**$\frac{15}{x}$ **+ 2** | **Whoville****4**$$\frac{15}{x}$$ |
| **Oz****8**$\frac{x}{15}$ **- 2** | **Titan (Saturn’s Moon)****2x****19** | **Sewer****5****15 – 2x** |
| **School Cafeteria**$$\frac{15}{2x}$$ | **Crowbar****2(15 + x)** | **Magic Spell****14****x + 2 + 15** |
| **Mind Control****9****x +** $\frac{2}{15}$**15** | **Stolen Gifts****10****x2****11** | **Broom****13****x2 - 15** |
| **Infinity Stones****2****15 + x** | **Red Balloon**$$\frac{2- x}{15}$$ |  |