Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CCM8

Combining Like Terms

Definitions

|  |  |
| --- | --- |
| Variable |  |
| Constant |  |
| Coefficient |  |
| Terms |  |
| Algebraic Expression |  |

6a2 + 5ab + 3b - 12

Coefficients: 6, 5, 3 Constant: -12 Variables: a2, ab, b

Like terms have exactly the same variable factors:

3x2 and 4x2 6xy and -5xy

Not like terms:

4x and 2y 7a2 and 3a 2xyz and 10yz

|  |  |
| --- | --- |
| VIC #1 |  |
| VIC #2 |  |

Simplify:

1. 15x + 12x
2. 3x2 + 5x2
3. 2z + 4z – 3z
4. 7y2 + 6y

|  |  |
| --- | --- |
| VIC #3 |  |

Simplify:

1. 3x + 9 + 2x – 8
2. 6a2 + 4d + 12a2 – 2d

|  |  |
| --- | --- |
| VIC #4 |  |

Simplify:

1. 21b + 10a – 8a – 6b
2. 3x + 7x2 + 6x – 2x2

|  |  |
| --- | --- |
| VIC #5 |  |

Simplify:

1. 5q + x – 3q + 7x
2. x2 + 3y2 + 2x2 – 2y2