Algebra

Expression vs. Equations

| Vocabulary | Definition | Example |
|---|---|---|
| Equation | a math statement with an equal sign | $4n^2+7=11$ |
| Expression | a math statement without an equal sign | $4n^2+7$ |

# Expression vs. Equation

expression $7+f$

expression $12(7-3)$

equation $(6 \times 4) = (3 \times 8)$

expression $(5 \times 5 \times 5)$

equation $\frac{9}{2} \times \frac{4}{3} = 6$

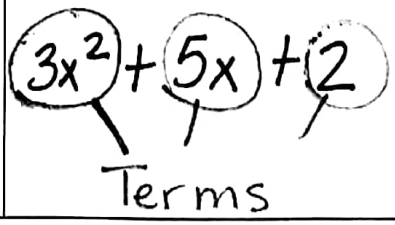
expression $6x - 6y - 6z$

equation $\frac{(40-5)}{7} = 5$

expression $8$

equation $0.1 + 0.5 = 0.3 + 0.3$

expression $(2 \times 2) - (1 \times 1)$

| Vocabulary | Definition | Example |
|---|---|---|
| Terms | part of a math expression/equation separated by an addition or subtraction sign. |   |

| Expression | # of Terms | List Terms |
|---|---|---|
| $4x + 7$ | 2 | $4x$, $7$ |
| $-5 - 9L + 3$ | 3 | $-5$, $9L$, $3$ |
| $7f$ | 1 | $7f$ |
| $5x^2 + 3x$ | 2 | $5x^2 + 3x$ |

| Vocabulary | Definition | Example |
|---|---|---|
| Coefficient | the number in front of the variable (being multiplied by the variable) | $3x + 5r + 2$ Coefficients |
| Variable | the letter that represents an unknown number. | $3x + 5r + 2$ variables |
| Constant | the number on its own. | $3x + 5r + 2$ constant |

| | Expression | Coefficient/s | Variable | Exponent | Constant |
|---|---|---|---|---|---|
| 11. | $2k - 5$ | 2 | k | none | 5 |
| 12. | $1m + 23$ | 1 | m | none | 23 |
| 13. | $1n^3 + 6$ | 1 | n | 3 | 6 |
| 14. | $7p^2 - 18$ | 7 | p | 2 | 18 |
| 15. | $12q^2 + 1q - 2$ | 12, 1 | q | 2 | 2 |

Terms

$7n + 2$