

Practice: Communicate With Algebra

- For each term, identify the coefficient and the variable.
 - $4x$
 - $-5p^4$
 - $3m^2n$
 - g^3h^2
 - $-2y^5$
 - $-p^4q^5$
 - $\frac{3}{4}ab$
 - $0.6r^4s^2$
- The expression $2x + 5$ is a:
 - monomial
 - binomial
 - trinomial
 - term
- The expression $-12m^4n$ is a:
 - monomial
 - binomial
 - trinomial
 - term
- The expression $3a^2b^2 + ab^3 + b$ is a:
 - monomial
 - binomial
 - trinomial
 - term
- Classify each polynomial by type.
 - $2x + 1$
 - $3p^2 - p + 4$
 - $4b^2d^3$
 - $6 + gh^5$
 - $2 - y^5 - y^2 + 4y$
 - $x^2 - y^2 + 4$
 - $ab - b$
 - $6p^3q^3$
- What is the degree of each term in question 5?
 - $2x + 1$
 - $3p^2 - p + 4$
 - $4b^2d^3$
 - $6 + gh^5$
 - $2 - y^5 - y^2 + 4y$
 - $x^2 - y^2 + 4$
 - $ab - b$
 - $6p^3q^3$
- The degree of $5m^2n + mn^3 + 1$ is:
 - 1
 - 2
 - 3
 - 4
- What is the degree of each polynomial?
 - $6a^2 + 4b^3$
 - $5b^4$
 - $3x^2 + x - 1$
 - $m^3 - m^2 + 4m$
- $2p^4q^3$
 - $x^2y^2 + 4xy$
 - $a^5b - 7b^3$
 - $-m^4n^3 - m^2n + 4mn^4$
- Which algebraic expression matches this phrase: a number increased by 6 is 8
 - $6x = 8$
 - $x + 8 = 6$
 - $x + 6 = 8$
 - $\frac{x}{6} = 8$
- Write an equation for each phrase.
 - double a number is 14
 - a number decreased by 6 is 5
 - one third of a number is 2
 - triple a number, increased by 1 is 8
- Maggie earns \$5 per hour when she babysits 1 child. She earns \$8 per hour when she babysits 4 children. Let x represent the number of hours she babysits 1 child and y represent the number of hours she babysits 4 children. Which expression represents her total earnings?
 - $5x - 8y$
 - $x + y$
 - $5x + 8y$
 - $x - y$
- Evaluate each expression for the given values of the variables.
 - $2x - 3$ $x = 4$
 - $3y + 2$ $y = 7$
 - $r^2 - r + 1$ $r = 6$
 - $a^2 - 2b^2$ $a = 3, b = 1$
 - $p^2 + 2p - 3$ $p = 4$
 - $4x^2 - y - 2$ $x = 2, y = 1$