

Well done Mr. S. !!

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1. Give **examples** of each of the following: (10/10)

- (a) Constant -2 ✓
 (c) Expression $-5x^2 - xy$ ✓
 (e) Monomial $3m^2n^3$ ✓
 (g) Trinomial $x^2 - 9x + 20$ ✓
 (i) Polynomial of Degree 3 x^3 ✓

- (b) Variable x ✓
 (d) Term $3x - 3y$ ✓ (Note: $3x$ is circled and labeled "Term")
 (f) Binomial $3x - 3y$ ✓
 (h) Like Terms $-5a^2, 9a^2$ ✓
 (j) Term with a Coefficient of -6 $-6xyz$ ✓

2. Complete the following table. (6/6)

English	Algebraic Expression	English	Algebraic Equation
Six more than a number	<u>$n+6$</u> ✓	Double a number plus 5 is 1.	<u>$2x+5=1$</u> ✓
Fifteen decreased by a number ✓	<u>$15-y$</u>	The quotient of a number and two, decreased by 15 is 1. ✓	<u>$\frac{y}{2} - 15 = -1$</u>
Two less than the quotient of a number and -3	<u>$\frac{n}{-3} - 2$</u> ✓	One-third of a number minus 2 yields 16.	<u>$\frac{b}{3} - 2 = 16$</u> ✓

3. Evaluate the following expression for $a = -3$ and $b = 2$. (5/5)

$$\begin{aligned}
 & -3ab + 5(a+b)^3 \\
 & = -3(-3)(2) + 5(-3+2)^3 \quad \text{M} \quad \text{B} \\
 & = 18 + 5(-1)^3 \quad \text{E} \\
 & = 18 + 5(-1) \\
 & = 18 + (-5) \quad \text{M} \\
 & = 18 - 5 \\
 & = 13
 \end{aligned}$$

Rough Work:

$$\begin{aligned}
 (-1)^3 &= (-1)(-1)(-1) \\
 &= -1
 \end{aligned}$$