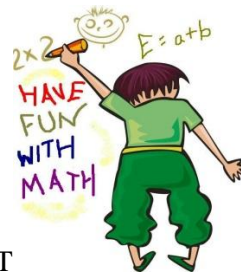


NAME: _____



ALGEBRA REVIEW SHEET
Grade 7

SECTION A

Answer the following questions in the space provided

1. Simplify the following:

a) $-3m - 9m + 5m - 10m$

b) $-2 - 3h + \frac{3}{2}h - \frac{4}{3}$

c) $-2h + 3n - 4h + 3h - 4n$

d) $\frac{3}{2}m - \frac{1}{6}n - \frac{3}{2}n + \frac{2}{3}m$

e) $\frac{4m^2}{6b} \div \frac{2m^7}{3b^3}$

f) $\frac{5}{2a} \times \frac{3a}{2} \times \frac{4a^2}{2}$

g) $-3m^2(4 - m)$

h) $\frac{4m}{3} \left(-9 + \frac{1}{2}m^2 \right)$

i) $-2(-4m - 1) + 3(-m + 5)$

j) $\frac{2}{3}m(6m - 3m^2) + 3\left(-6m^2 - \frac{4}{3}\right)$

k) $d \times 2d - 3d - d \times d - d$

l) $-3x^2 + 2x + 2x^2 - 5x^3 - 7x$

m) In the following expression: $8 + 2x - \frac{3}{2}x^2$

a) How many terms are there? _____

b) What is the coefficient of x^2 ? _____

c) What is the constant term? _____

2. Write expressions for the following:

a. -2 added to the square of h

b. Half q is added to twice the square of half m

c. *The quotient of -3 and x is less than the product of m and -2x*

d. *The sum of 3 consecutive numbers is subtracted from 5*

SECTION B



Solve the following equations for the unknown variable.

a) $-2 = -m - 14$

b) $4(2w - 3) + 4 = -16$

c) $\frac{-3(n-6)}{3} = 4$

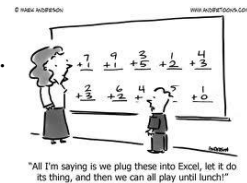
d) $4y - 2(y + 1) = -5$

SECTION C:

Complete the following showing all work where possible.

1. Given that $h = \frac{3}{2} + m - p^3$, find the value of :

a) h when $m = -4$ and $p = 2$



b) h when $m = 10$ and $p = -1$

2. Given that $G = -y + 2(m - 3)$, find the value of:

a) G when $y = 2$ and $m = \frac{1}{2}$

b) G when $y = -5$ and $m = -2$

3) Mary spent one fifth of her allowance to buy a dress for the Christmas party. She purchased a party ticket which cost twice the amount she paid for the dress. If spent a total of \$4000 to buy the dress and ticket:

a) Write an algebraic equation to represent the information given

c) What was the cost of the dress?

d) How much was her allowance?

4) Three consecutive even numbers have a sum of 936. Find the three numbers.