Ninth Grade - Number Sense - Polynomials

- 1) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expressions.6x
 - Number of terms = 1 Coefficient of x = Nil Constant = Nil
 - Number of terms =1 Coefficient of x = Nil Constant = 6
 - Number of terms = Nil Coefficient of x = 1 Constant = 6
 - Number of terms = 1 Coefficient of x = 6 Constant = Nil
- 2) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expressions. 3x +5y
 - Number of terms = 2 Coefficient of x = 3 Constant = Nil
 - Number of terms =Nil Coefficient of x = 2 Constant = Nil
 - Number of terms =1 Coefficient of x = 3 Constant = Nil
 - Number of terms =2 Coefficient of x = Nil Constant = 3
- 3) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. $4x^2 7x + 5$
 - Number of terms =3 Coefficient of x = Nil Constant = Nil
 - Number of terms =Nil Coefficient of x = 4 Constant = Nil
 - Number of terms =2 Coefficient of x = 4 Constant = 2
 - Number of terms = 3 Coefficient of x = -7 Constant = 5
- 4) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. 16 +5x
 - Number of terms = 3 Coefficient of x = 7 Constant =6
 - Number of terms =1 Coefficient of x = 5 Constant = 6
 - Number of terms = 4 Coefficient of x = 5 Constant = 6
 - Number of terms = 2 Coefficient of x = 5 Constant = 16

- 5) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. $4x^3 7x + 2x^2 8$
 - Number of terms = 4 Coefficient of x =-7 Constant =-8
 - Number of terms = 2 Coefficient of x =-9 Constant =-4
 - Number of terms = 5 Coefficient of x =-4 Constant =NIL
 - Number of terms = 2 Coefficient of x =-7 Constant =-7
- 6) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. 2x 3y + 7
 - Number of terms = Nil Coefficient of x = 4 Constant = Nil
 - Number of terms = 2 Coefficient of x = 3 Constant = -3
 - Number of terms = 3 Coefficient of x = 2 Constant = 7
 - Number of terms = 2 Coefficient of x = 3 Constant = 2
- 7) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. $7x^2 6x + 5$
 - Number of terms = 3 Coefficient of x = -6 Constant = 5
 - Number of terms = 3 Coefficient of x = Nil Constant = Nil
 - Number of terms = 2 Coefficient of x = 5 Constant = -6
 - Number of terms = 2 Coefficient of x = -6 Constant = Nil
- 8) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. 3x 5 + 7y
 - Number of terms = 5 Coefficient of x = -5 Constant = -5
 - Number of terms = 3 Coefficient of x = 3 Constant = -5
 - Number of terms = 2 Coefficient of x = 2 Constant = 7
 - Number of terms = 3 Coefficient of x = Nil Constant = Nil

- 9) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. $7x^2 2y^2 2$
 - Number of terms = 4 Coefficient of x = 7 Constant = -2
 - Number of terms = 4 Coefficient of x = Nil Constant = 7
 - Number of terms = 3 Coefficient of x = Nil Constant = -2
 - Number of terms = 3 Coefficient of x = Nil Constant = Nil
- 10) Write down the number of terms, coefficient of x (if any) and constant (if any) of the following expression. 9-2x
 - Number of terms = 2 Coefficient of x = -2 Constant = 9
 - Number of terms = 9 Coefficient of x = Nil Constant = Nil
 - Number of terms = 1 Coefficient of x = Nil Constant = Nil
 - Number of terms = 1 Coefficient of x = -2 Constant = 9
- 11) Simplify the following expression: -3p + 6p
 - 3p
 - 1p
 - -3p
 - 6p
- 12) Simplify the following expression : b 3 + 6 2b
 - $b^2 + 3$
 - -b + 3
 - b+3
 - -2 + 3b
- 13) Simplify the following expression: 7p 10p
 - -3p

- p² 3
- 7p
- 3p
- 14) Simplify the following expression: -10v + 6v
 - 4v
 - -4v
 - 6v
 - -10v
- 15) Simplify the following expression: 9r + 10r
 - 10r
 - r²
 - -1r
 - r
- 16) Simplify the following expressions: 9 + 5r 9r
 - -4 +9
 - 4r -9
 - -4r +9
 - r(4-9)
- 17) Simplify the following expressions: 1 3v + 10
 - 2v -9
 - -3v + 11
 - v +10
 - 2v +10

18) Simplify the following expressions: 4b + 6 - 4

- 4b -2
- b +2
- 10b -4
- 4b + 2
- 19) Simplify the following expressions: 35n 1 + 46
 - 36n + 45
 - 34n + 46
 - 35n 45
 - 35n + 45
- 20) Simplify the following expressions: -33v 49v
 - 33v
 - -49v
 - 8v
 - -82v
- 21) Expand and simplify where ever necessary: -5(-4 + 8m) 13
 - 9 + 19m
 - 9 + 18m
 - 5 + 41m
 - 7 40m
- 22) Expand and simplify where ever necessary: 17 8(-11 + 4b)
 - 105 32b
 - 95 + 30b
 - 85 + 11b
 - 10 11b

- 23) Expand and simplify where ever necessary: -9(7k -19) + 11k
 - k +11
 - 51k +170
 - -52k +171
 - 7k +18k
- 24) Expand and simplify where ever necessary: 4x + 12(-17x + 8)
 - 90x + 85
 - 150x + 93
 - -200x + 96
 - 85x + 70
- 25) Expand and simplify where ever necessary: 13 + 4(-3m + 14)
 - -12m + 69
 - -20m + 70
 - 10m + 93
 - -10m + 83
- 26) Expand and simplify where ever necessary: -2m + 3(6m 16)
 - 13m 48
 - 15m + 40
 - 16m 48
 - 17m 40
- 27) Expand and simplify where ever necessary: 6(-5h 13) + 2

- 30h + 73
- 25 h 70
- -30h 76
- 32h + 76
- 28) Expand and simplify where ever necessary: -10(4n 3) + 13
 - 35n + 40
 - 23n + 36
 - 20n + 45
 - -40n + 43
- 29) Expand and simplify where ever necessary: 18(13 2z) + 11z
 - 230 27z
 - 234 25z
 - 223 25z
 - 200 24z
- 30) Expand and simplify where ever necessary: 16 4(-18 2p)
 - 80 + 5p
 - 82 + 7P
 - 83 + 3P
 - 88 + 8p