Name:_____

Worksheet

Always state what your variable represents

1. Translate the following it to an algebraic expressions:

(a) a number reduced by 50

(b) 6 more than a double a number

(c) the product of 7 and a number reduced by 5

(d) The sum of a number and 6

(e) a number divide by 7 then increased by 11

(f) A number is subtracted from 9

2. Write the following algebraic expressions as words:

(a) 6x - 8

(b) m + 14

(c) 3x

(d) 15 - k

Name:_____ **Combining Like terms**

3. Simplify the following:

(a) 4 m + 6y - 2y + 6m **(b) 6b + 7f +2b + 10** **(c) 15k - 11k**

(d) 8a + 6+ 8 - 5a **(e) 10 + 16b + 6 + 3b**

(f) 18f + 11 - 7f + 9 **(g) 14r+ 12c- 3r - 7 c + 6d**

(h) 9s + 12 - 10+ 2s + 7 - 4s **(i) 16r + 4w + 11r + w - 5r**

(j) 16 + h + 4h - 7 - 2h + h **(k) 6h + 9b - 5h + 4b + 2h**

(l) 3x + 6y + 3x - 4y - 9 **(m) 22u + 14 - 3 - 2u + 7v**

(n) b + f + 2f + 3b + f + 4b **(o) 3e + 7t + 5 + 4t + 8**

4. Simplify the following, then evaluate with the given values.

(a) 10a +6 -5 -2a, a = 5 **(b) 9g + 8 + g - 4 g +7h + 4 , g = 10, h = 3**

(c) 7s + 6s - s + 8t - 2t, s = 2 , t = 9 **(d) 2y + 3x +5x + 7y + 15 , x = 1, y = 4**

5) In each of the following state the coefficient, constant, variable and what operations are in the expression.

a) 6+ 2n

Coefficient:___
Constant:____
Variable:_____
Op: _____

b) 8p-6

Coefficient:___
Constant:____
Variable:_____
Op: _____

c) y - 14

Coefficient:___
Constant:____
Variable:_____
Op: _____

d) 2g

Coefficient:___
Constant:____
Variable:_____
Op: _____

e) f / 4

Coefficient:___
Constant:____
Variable:_____
Op: _____

6) Write the above expressions into a phrase.

a) _____

b) _____

c) _____

d) _____

e) _____