## ITSE 2321 – OBJECT-ORIENTED PROGRAMMING JAVA **Homework 2 – Arithmetic Expression**

NAME:	(40 points)
	tializations below, evaluate the following s to at least <b>one decimal</b> where necessary.
int $i = -2$ , $j = 3$ , double $w = 4.5$ , $x = 4.2$ ,	
a) w + m / k	
Value:	Data Type:
b) (y + x) / i	
Value:	Data Type:
c) (15 + k) % j - 1	
Value:	Data Type:
d) x / i * j - 1	
Value:	Data Type:
e) j - m * -i	
Value:	Data Type:
f) y / (5 - j)	
Value:	Data Type:
g) i + x - j * i / 1	
Value:	Data Type:
h) 15 % j - (x / i)	
Value:	Data Type:
i) y / i * j - 1	
Value:	Data Type:

int i = -2, j = 3, k = 2, m = 4; double w = 4.5, x = 4.2, y = 6;

i'	) k	/ n	n *	i

Value: \_\_\_\_\_ Data Type: \_\_\_\_

k) 10 % j - (x / i)

Value: \_\_\_\_\_

Data Type: \_\_\_\_\_

j) y / (i \* (j - 1))

Value: \_\_\_\_\_

Data Type: \_\_\_\_\_

m) i + (11 % k) / m \* i

Value: \_\_\_\_\_

Data Type: \_\_\_\_\_

n) j - m % 3 \* i

Value: \_\_\_\_\_

Data Type: \_\_\_\_\_

o) j - m % 5 \* i

Value: \_\_\_\_\_

Data Type: \_\_\_\_\_

2. Write Java expressions for the following algebraic expression:

a) 
$$a = -2x + 2$$

b) 
$$z = 5x + 14y + 5k$$

c) 
$$c = k \frac{xb^3}{b - k^2}$$

d) 
$$g = \frac{h+12}{4k}$$

e) 
$$c = \frac{a^3}{b^2 k^3}$$