Coding ___ W06-05

A = -2 + 5 * 2 = -2 + (5 × 2) = -2 + 10 = 8 #

B = 10 / 2 * 3 = (10 ÷ 2) × 3 = 5 × 3 = 15 #

C = 6 / 2 + 3 * (4 % 2) = 3 + 3 × (0) = 3 #

D = (5 + 2) * 15 % 4 = 105 ÷ 4 = 1 #

E = 6 + 2 * 2 - 6 / 2 = 6 + 4 - 3 = 7 #

F = 5 + 3 * 2 - 8 / 4 + (6 % 5) * 5 + 6 - 2 + 1 = 9 + 1 = 10 #

G = 4 + 3 * 2 - 10 / (2 + 3) = 14 - 10 ÷ 5 = 14 - 2 = 12

Coding ___ W06-06 a = 5 b = 2 X = 0.3 y = 4.5

int r1 = a++ * b + (int) y % 3 → 5 × 2 + (4 % 3) = 10 + 1 = 11

int r2 = (a > b) && ((int)x / b < 2) → (6 > 2) && (3 ÷ 2 < 2)

→ true && true → true #

float r3 = ++ x * y - a / 2 → 4.0 * 4.5 - 6 ÷ 2 → 18.0 - 3 → 15.0 #

float r4 = ((x + = 1.5 > y) || (b --> 0) → ((5 + = 1.5) > 4.5) || 2 > 0)

→ true || true → true #

Coding ___ wob-04 short-hand Expression

แบบเต็ม

```
x = x - 4.0;
x = 6.5 * x;
x = x / (2.0*x);
total = total + (price * quantity - discount);
x = x * (1 + rate / 100);
score = score - (penalty * (mistake + 1));
```

แบบย่อ

```
x -= 4.0;
x *= 6.5;
x %= (y + z*a);
x /= (2.0 * x);
total= (price* quantity - discount);
x *= (1+rate / 100);
score -= (penalty * (mistake + 1));
```

Coding _ wob-03 Relational & Logical Operators

$x = 12, y = 7, z = 12$

1. $x > y$
2. $x < y$
3. $x == z$
4. $x != y$
5. $!(2 * 5 >= y \,||\, (5 != (5/3))$ $2*5 >= 7$ จริง, ! จริง → ไม่

$5! = 1$ จริง, false || true → true #

6. $!(x < y)$ $12 < 7$ ไม่ ! false → true #
7. $(x + y) > (2 * 2)$ $(12+7) > (12*2) \rightarrow 19 > 24 \rightarrow$ false #
8. $(x \,\%\, 2 == 0) \,||\, (y \,\%\, 2 == 1)$ $12 \,\%\, 2 = 0 \rightarrow$ true

$7 \,\%\, 2 = 1 \rightarrow$ true true || true → true #

9. $(x > y)$ && $(z < y)$ $12 > 7 \rightarrow$ true $12 < 7 \rightarrow$ false

true && false → false #

WOb-02-01

	i	j	k
i = 1, j = 2, k	1	2	
k = i + j	1	2	3
i = i + (k * j)	7	2	3
j = i / 2	7	2	3
K = i % 2	7	3	1
i = (j + k) * 3	12	3	1

WOb-02-02

	x	y	z
double x = 1.0, y = 2.0	1.0	2.0	
X = y + 5.0	7.0	2.0	
y = X % 2.0	7.0	3.5	
y = (x * 3.0) + 4.0)	7.0	25.0	
x = -0.5 - y	-25.5	25.0	
z = x + y	-25.5	25.0	-0.5