



✓ **Congratulations! You passed!**

TO PASS 80% or higher

Keep Learning

GRADE
100%

Variables and Expressions

TOTAL POINTS 4

1. For the following statements:

1 / 1 point

```
1 int x;  
2 int y = x;
```

Which one of the following best describes the error?

- ☒ The uninitialized variable x is used.
- ☐ 'x' is not a valid identifier.
- ☐ Variable y is not declared.
- ☐ The uninitialized variable y is used.

✓ Correct

2. For the following statements:

1 / 1 point

```
1 int a1 = 2;  
2 3 = a1;
```

Which one of the following best describes the error?

- ☐ 'a1' is not a valid identifier.
- ☐ The uninitialized variable a1 is used.
- ☒ '3' is not an lvalue.
- ☐ The variable a1 is already assigned the value 2.

✓ Correct

3. For the following statements:

1 / 1 point

```
1 int x = 3;  
2 int y;  
3 int z = x + 2 * 4;
```

Which one of the following correctly depicts the state of the program after these statements are executed?

- ☐ Conceptual drawing:

x	3
y	
z	11

The image above shows three horizontal boxes. The top box shows an "x" on the left and a "3" on the right. The middle box shows a "y" on the left and nothing on the right. The bottom box shows a "z" on the left and an "11" on the right.

- ☒ Conceptual drawing:

x	3
y	?
z	11

The image above shows three horizontal boxes. The top box shows an "x" on the left and a "3" on the right. The middle box shows a "y" on the left and a "?" on the right. The bottom box shows a "z" on the left and an "11" on the right.

- ☐ Conceptual drawing:

x	3
---	---

y	
z	20

The image above shows three horizontal boxes. The top box shows an "x" on the left and a "3" on the right. The middle box shows a "y" on the left and nothing on the right. The bottom box shows a "z" on the left and a "20" on the right.

☐ Conceptual drawing:

x	3
y	?
z	20

The image above shows three horizontal boxes. The top box shows an "x" on the left and a "3" on the right. The middle box shows a "y" on the left and a "?" on the right. The bottom box shows a "z" on the left and a "20" on the right.

✓ Correct

4. For the following statements:

1 / 1 point

```
1 int a;
2 int b;
3 a = 5;
4 b = a % 2 - (a + 1) / 2;
```

Which one of the following correctly depicts the state of the program after these statements are executed?

☐ Conceptual drawing:

a	5
b	-0.5

The image above shows two horizontal boxes. The top box shows an "a" on the left and a "5" on the right. The bottom box shows a "b" on the left and a "-0.5" on the right.

☐ Conceptual drawing:

a	5
b	-1

The image above shows two horizontal boxes. The top box shows an "a" on the left and a "5" on the right. The bottom box shows a "b" on the left and a "-1" on the right.

☒ Conceptual drawing:

a	5
b	-2

The image above shows two horizontal boxes. The top box shows an "a" on the left and a "5" on the right. The bottom box shows a "b" on the left and a "-2" on the right.

☐ Conceptual drawing:

a	5
b	-5

The image above shows two horizontal boxes. The top box shows an "a" on the left and a "5" on the right. The bottom box shows a "b" on the left and a "-5" on the right.

✓ Correct

Review the reading Expressions with Common Operators.