
1. Which of the following variable names is invalid?

Show Results

23/27 Students Answered

- A my5BestBooks ✓
- B returnAmount ✓
- C 67count ✗
- D _MAX_NUMBER_OF_MONKEYS_ ✓

i No Explanation

2. Which of the following best conforms to Java variable naming conventions for a boolean variable?

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22/27 Students Answered

- A is_project_completed ✗
- B projectCompleted ✗
- C isPrjctCmpltd ✗
- D isProjectCompleted ✓

i No Explanation

3. What is the value of the variable y after this code snippet executes?

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3	⓪
7	⓪
3	⓪
3	⓪
3	⓪
7	⓪
3	⓪
y + 3	⓪
3	⓪
3	⓪
3	⓪

```
1 int x = 5;  
2 int y = x + 2;  
3 y = 3;
```

Answer is 3

```
double x = 7 / 4;
```

7 is an integer
4 is an integer

7 / 4

1

1.0 is the double representation of the integer 1

$7 / 4 * 3.0$

```
double x = 7 / 4;
```

7 is an integer
4 is an integer

$7 / 4$

$7.0 / 4$ - mixed mode expression

$(\text{double}) 7 / 4$ - cast

$7 / 4$

$7 / 4.0$

1

1.0 is the double representation of the integer 1

```
double x = (5 / 2) * 4;
```

parens first $(5 / 2) \Rightarrow \text{int} / \text{int} \Rightarrow \text{int}$ answer is 2

$2 * 4 \Rightarrow 8$

6. What definition is the most appropriate for a variable that contains the number of pencils in a small pencil box?

Show Results

22/27 Students Answered

- A long numberOfPencils; long - long integer 8 bytes
 - B float numberOfPencils; float - decimal
 - C byte numberOfPencils; byte ←
 - D boolean numberOfPencils; true or false
- i No Explanation

```
int x = (int)((5 / (double)2) * 4);
```

`int x = (int)((5 / (double) 2) * 4);`

`(5 / (double) 2)`

`(double) 2`

`2.0`

`(5 / 2.0)`

`2.5`

`int x = (int) (2.5 * 4);`

`(int) 10.0 ; => 10`

`int x = 10;`

```
int x = 9 + 5 / 2 * 4 - 3;
```

multiplicative - * / % l to r

addition + - l to r

```
int x = 9 + 5 / 2 * 4 - 3;
```

5 / 2

2 * 4

8

```
int x = 9 + 8 - 3;
```

```
int x = 14;
```

variable

```
double pi = 3.14;
```

constant - value cannot change

final - in java means constant

convention constants are in all CAPS

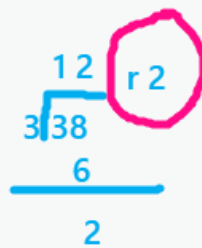
```
final double PI = 3.14;
```

```
double x = 38 % 3;
```

% means remainder

```
double x = 38 % 3;
```

```
double x = 2.0;
```



Methods

class names will start with an upper case letter (Pascal case)

- Method Signature

- Descriptive Names
- Return type (such as int, double, long, String, void, etc)
- Input parameters

- Parameters are variables that only live in the method.

```
public static void main( String[] args) {
```

method names
start with lower case letters

```
int age = 29;
```

```
public int addTwoNumbers( int number1,  
int number2) {
```

```
}
```