

Type in three made up int grades and then sum and average them. Use type casting to report the result as a double. If you do this challenge on repl.it.com (see template and links below), please paste your repl link here to turn it in.

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Pair?

```
1 //Code by Akshat Garg
2 public class Challenge1_6
3 {
4     public static void main(String[] args)
5     {
6         // 1. Declare 3 int variables called grade1, grade2, grade3
7         // and initialize them to 3 values
8         int grade1 = 99;
9         int grade2 = 93;
10        int grade3 = 97;
11
12        // 2. Declare an int variable called sum for the sum of the grades
13        int sum;
14
15        // 3. Declare a variable called average for the average of the grades
16        double average;
17
18        // 4. Write a formula to calculate the sum of the 3 grades (add them
19        // up).
20        sum = grade1 + grade2 + grade3;
21
22        // 5. Write a formula to calculate the average of the 3 grades from
23        // the sum using division and type casting.
24        average = (double)sum / 3;
25
26        // 6. Print out the average
27        System.out.println(average);
28    }
29 }
30 }
31
32
```

96.33333333333333

Result	Expected	Actual	Notes
Pass	Declared grade1, grade2, grade3, and average	Declared grade1, grade2, grade3, and average	Checking that variables have been declared properly
Pass	grade1 + grade2 + grade3 sum / 3	sum = grade1 + grade2 + grade3; average = (double)sum / 3;	Checking that grades have been added together and divided by 3
Pass	(double)	average = (double)sum / 3;	Checking that expression was cast as a double
Pass	96.33333333333333	96.33333333333333	Checking that calculation is correct

You got 4 out of 4 correct. 100.00%

Activity: 1.6.1.1 ActiveCode (challenge1-6-average)

I learned about how and when to use casting to counteract built-in truncation and decimal manipulation in the Java language. I used casting to achieve my intended output.