

1. Which of the following code segments would properly round the number 3.7 to the nearest whole number?

I. `(int)3.7;`
II. `(int)3.7*10;`
III. `(int)(3.7+0.5);`

- A. I only
B. II only
C. III only
D. I and III
E. II and III

2. What is the exact output for the following code excerpt?

```
int cat=2, dog=5, fish=10;  
cat+=dog;  
dog-=fish;  
fish*=cat+dog;  
System.out.print(fish);
```

3. What is the exact output for the following code excerpt?

```
int one=5, two=9, three=15, four=3;  
three%=two;  
three/=four;  
one++;  
System.out.print(three+one);
```

4. What is the exact output for the following code excerpt?

```
double a=2.5, b=12, c=8;  
double z = b/c;  
System.out.print(a+b+c+z);
```

5. What would the following problems evaluate to?

- a. `(double)(5/10)`
b. `(int)(17%3*1.6)`
c. `(int)(100*5.36891+0.5)`
d. `(double)(2+3+4+5+6)/5`
e. `(double)(10/4+2)`
f. `10+13*2/3%5`

6. What is the exact output for the following code?

```
System.out.print("\\this is really close to a comment but\\ NOT\\");
```

7. If the order of operations were reversed (addition/subtraction came before multiplication/division), what would $5 - 2 * 7 / 2 + 8 - 1$ evaluate to?
8. In Netbeans create a class called **myExamAverages**. Use the following code and be sure to add proper code where asked. **Note:** you must use the variable names, round using the "+0.5" method, and output:

```
int ex1=86, ex2=77, ex3=88;  
int ex4=71, ex5=92, ex6=88;
```

```
//add code to average the exams and store in a proper variable
```

```
System.out.print("Avg rounded to nearest percent: ");
```

```
//add code that rounds the average & outputs correctly: 84
```

```
System.out.print("\nAvg rounded to one decimal place: ");
```

```
//add code that rounds the average & outputs correctly: 83.7
```

```
System.out.print("\nAvg rounded to two decimal places: ");
```

```
//add code that rounds the average & outputs correctly: 83.67
```

```
//When done, run your program and make sure the output is:
```

```
Avg rounded to nearest percent: 84
```

```
Avg rounded to one decimal place: 83.7
```

```
Avg rounded to two decimal places: 83.67
```