AP Computer Science A
Ticket Out the Door
Set 4: Mixed Data Types

Name _____ Period _____

Skill 4.1 Exercise 1	
Indicate what is printed for each of the following	
`int cnt = 27.2;` `System.out.println(cnt);`	
`int cnt = 27.9;` `System.out.println(cnt)`	
`double d = 5;` `System.out.println(d);`	

`int cnt = 101;`
`double d = cnt;`
`System.out.println(d)`	

`int cnt = 17.9;`
`double d = cnt;`
`System.out.println(d);`	

Skill 4.2 Exercise 1	
Indicate what is printed for each of the following	

`int x = 10;`
`int y = 7;`
`System.out.println(y/x);`	

`int x = 10;`
`int y = 7;`
`System.out.println(x/y);`	

`double x = 10;`
`int y = 7;`
`System.out.println(y/x);`	

`int x = 10;`
`int y = 3;`
`double z = x/y;`
`System.out.println(z);`	

`int x = 10;`
`int y = 3;`
`System.out.println((double)x/y);`	

`int x = 10;`
`int y = 3;`
`System.out.println((double)x%y);`	

`double x = 10.5`
`int y = 3;`
`System.out.println(x%y);`	

`double x = 10;`
`double y = 3;`
`double z = 10/3;`
`int i = z;`
`System.out.println(z);`	

`int p = 3;`
`double d = 10.3;`
`int j = (int)5.9;`
`System.out.println(p + p * (int)d − 3 * j);`	

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Skill 4.3 Exercise 1	
Indicate what is printed for each of the following	

`int x = 0;`
`int y = 0;`
`System.out.println(x/y);`	

`double x = 0;`
`double y = 0;`
`System.out.println(x/y);`	

`int x = 100;`
`double y = 0;`
`System.out.println(x/y);`	

`int x = -100;`
`double y = 0;`
`System.out.println(x/y);`	

Skill 4.4 Exercise 1
Write code that will create a constant variable AVOGADRO that is equal to 6.022×10^{23}
Indicate whether the following code is legal or illegal. If illegal indicate why.

`final double p = 3.14;`
`int r = 5;`
`double c = 2 * p * r;`
`p = c;`