

Question 2:

```
Let double guess, t=0.00, a = 16; //Guess
a/=2;
print a;
while( guess*guess>t+a or guess*guess < a-t)
{
    guess = (guess + a/guess)/2;
}

print ("The square root is" + guess);
```

Question 6

What are the values of the following expressions? In each line assume that

```
double x = 2.5;
double y = -1.5;
int n = 17;
int m = 18;
a.  $x + n * y - (x + n) * y$ 
b.  $m / n + m \% n$ 
c.  $n \% 2 + m \% 2$ 
d.  $(m + n) / 2$ 
e.  $(m + n) / 2.0$ ;
f.  $(int) (0.5 * (m + n))$ 
g.  $1 - (1 - (1 - n))$ 
h.  $n \% 10 + (n - (n \% 10))$ 
```

/\*

For all of these questions, in reality there is only a semicolon at the end of question (e) so that would actually be the only one that could actually run, also all of the outcomes would have to be of type double or else they would not compile. Question h also has an error.

\*/

Excusing the mistakes in the question the outcomes would be:

- a) 6.25
- b) 2.0
- c) 1.0
- d) 17.0
- e) 17.5
- f) 17.0
- g) -16.0
- h) 17.0