

Software Design I (CS 120)
Quiz 05: Tuesday, 25 October 2016

NAME _____

- (1) (5 pts.) For each of the following loops, write out how many times it will loop. (Note that this will be the same as the number of lines each will print out.)

```
int x = 0;
while ( x < 10 )
{
    System.out.println( x + 1 );
    x++;
}
```

(a) Answer: _____

```
int y = 1;
while ( y < 10 )
{
    System.out.println( y );
    y = y + 2;
}
```

(b) Answer: _____

```
int w = 1;
while ( w < 16 )
{
    System.out.println( w );
    w = w * 2;
}
```

(c) Answer: _____

```
int v = 0;
while ( v < 5 )
{
    System.out.println( v );
    v = v + 1 / 5;
}
```

(d) Answer: _____

```
int z = 10;
while ( z < 5 )
{
    System.out.println( z );
    z = z * 2;
}
```

(e) **Answer:** _____

(2) (5 pts.) Write out the exact output of the following code.

```
for ( int i = 1; i <= 6; i++ )
{
    System.out.print( i + ": " );
    if ( i % 2 == 0 )
    {
        System.out.println( "TRUE" );
    }
    else
    {
        System.out.println( "FALSE" );
    }
}
```
