

<b>Last Name:</b>	
<b>First Name:</b>	
<b>Class:</b>	
<b>Grade:</b>	<b>Converted to Final Grade:</b>

**Beginning Engineering Graphics**  
**Instructor: Edward N. Locke**

## **Quiz 2: Drafting Basics (Systems of Measurement, Basic Geometric Construction, Drawing Scale and Paper Sizes)**

**(1). Circle all correct statements about the two systems of units used in engineering drawing:**

1. In the Metric system, 1 km = 1,024m, 1m = 12 decimeter, 1 decimeter = 12cm;
2. In the US Customary or British Imperial system, 1.5 yard = 4.5 feet, 2 foot = 24 inches;
3. In the Metric system, 5.6 km = 5,600 m, 10 m = 100 decimeter, 1 m = 1,000 mm.
4. One kilometer is longer than one mile, and one yard is longer than one meter.

**(2). Please tell me the customary sizes of the following paper sizes:**

1. A5:
2. A6:

**(3). Do the following conversion and calculation:**

1. 6.33 km =            m
2. 30 in =        ft
3. 3½ ft =        in
4. 3.5 m =            mm
5. 0.15 m =            mm
6. 2 in =            mm
7. 5 yards =            inches
8. 5 mm =            in

**(4). Circle all correct statements on angles A (145°), B (90.1°), C (15°), D (55°) and E (89.9°):**

1. Angle A is an obtuse angle; Angle C and D are acute angles;
2. Angle B is a right angle;
3. Angle B is an obtuse angle;
4. Angle E is an acute angle.

**(5). A three-sided shape with two equal sides and three acute angles is:**

1. An equilateral triangle;
2. A right triangle;
3. An isosceles triangle;
4. None of the above.

**(6). A quadrilateral with four equal sides and two pairs of equal opposite angles is:**

1. A rectangle;
2. A trapezoid;
3. A rectangle or a rhombus;
4. A rhombus.

**(7). Using a compass, a ruler, and a pencil,**

1. Draw an angle and an arc, and bisect them:

angle

arc

2. Draw a line and divide it into five equal parts:

line

3. Draw a line as a base and construct an equilateral triangle:

line