**Aircraft Maintenance Engineer**

**Math Readiness Assessment**

**Please note that calculators are *NOT* allowed.**

**Scrap paper is provided.**

1. **Subtract and round the answer to the nearest hundreds: 3835 – 1278 =**
2. **Which number is the largest?**
3. **0.00576 b) 0.02010 c) 0.04006 d) 0.00406 e) 0.00601**

**FRACTIONS: Reduce your answer to the lowest value**

1. $\frac{3}{4}$ **+** $ \frac{9}{16}$ **=**
2. **7** $\frac{3}{4}$ **÷** $ \frac{3}{8} $**=**

**LINEAR MEASURE – Reduce your answer to the lowest value.**

**One foot (1’) is equal to 12 inches (12 “)**

1. **Subtract: 37’ 3**$ \frac{3}{16}$**” - 8’ 10** $\frac{5}{8}$**” =**
2. **Multiply: 4’ 8**$ \frac{5}{8}$**” x 6 =**

**CONVERSIONS**

1. **The tolerance indicated on the technical drawing is 2.75 millimetres. Convert this tolerance to inches.**
2. **The propeller blade is 3.69 feet long. Convert this length to centimetres.**

**APPLIED PROBLEMS**

1. **At the beginning of the day on Monday the parts department has 535 spark plugs in stock. The service department estimates they will need 78 plugs per day. A shipment of 500 new spark plugs will arrive on Thursday. Calculate the number of spark plugs the department will have in stock by the end of the day Friday.**
2. **Ohm's Law deals with the relationship between voltage and current in an ideal conductor. It is defined as V = I × R where V is the potential difference between two points which include a resistance R measured in ohms (Ω). I is the current flowing through the resistance.**

**Question: A taxi light has a resistance value of 3.9 Ω and the system’s voltage is 12V. Calculate the current.**