1. For **Interpolation > 1x**, it **doesn't need Complex IQ Data**, it can **work with Real data samples Yes**
2. If we **don't use NCO Mixers**in DAC37J82, it Can generate
   1. Output\_i : **1x or Interpolated(2x to 16x)** output corresponding to **first channel data samples** (**Real data**) Do not understand question
   2. Output\_ii : **1x** or **Interpolated(2x to 16x)** output corresponding to **Second channel data samples (Real data)** Do not understand question
   3. DACA, DACB, DACC, DACD can be configured to select any of the outputs Yes, but only two of them can be used.
3. If we need to **use DAC LO/NCO Mixers** then DAC requires **Complex IQ data No. See page 38 of data sheet**
4. If we need Mixers on Both the channels then
   1. **DAC37J82 cannot handle it**, it has only **one Complex Mixer**. Correct
      1. DAC has only 2 outputs, the **Real part** of the **Mixer** output and the **Imaginary part** of the **Mixer**output; **DACA, DACB, DACC, DACD** can be **configured to select any outputs of the Mixer**. Yes, but only two of them can be used.
   2. **DAC37J84** **Can be used**, it has **two Complex Mixers**. **Outputs** based on the **default configuration** of ***pathX\_out\_sel*** register bits setting
      1. **DACA**: **REAL part Mixer 1 output**, **DACB**: **Imaginary part Mixer 1**output
      2. **DACC**: **REAL part Mixer 2 output**, **DACD:** **Imaginary part Mixer 2**output Correct
5. With DAC37J82, **2 Channel Real data**, Max **FDATA = 1400 MSPS** resulting in **JESD line rate of 7 Gbps** (8 lines used); **Same** sampling and JESD rate applies to **One channel Complex data**, with Real and imaginary Mixer o/ps Correct but still using two DAC outputs. One DAC is I data and the other is Q data
6. WIth DAC37J84
   1. With 4 Channel Real data, Max **FDATA = 1250 MSPS** resulting in **JESD line rate of 12.5 Gbps** (8 lines used); **Same** rates apply to **2 channel complex data** No. Max input data rate is 1230MSPS which is 12.3Gbps.
   2. **1 channel complex or 2 channel real data**, sampling and JESD rate same as **point no 5** mentioned above. For complex data, two DAC’s are always required. Cannot compare this way.