DEV Day 3 interpretation questions

1. Interpret your data from observing the zebrafish embryos. This should include the answers to the questions:

   a. What stage embryos did you observe?
   b. What did you observe in these embryos that was expected and unexpected?
   c. Did you observe differences between untreated and LiCl treated embryos? If so, what differences?
   d. Based on what you know about teratogens, would you expect to see any differences between untreated and LiCl treated embryos if the treatment had been done at 24 hours post fertilization?

2. Interpret data from observing your agarose gel. This should include the answers to the following questions:
   a. Did you see bands in every lane of the gel you loaded?
   b. Compare the amounts of rRNA in each of stages 1-4. (Were they equal? If not, which had the most/least?)
   c. Why can you see a band in the lane of your agarose gel that is supposed to be our negative control?

3. Instead of using the protocols as listed, you decide to be creative when performing your random hexamer-primer labeling. Explain what might happen in the following scenarios:

   a. Instead of using 0.65 mM dTTP + 0.35 mM dig-11-dUTP, you feel like kicking it up a notch by using 1.0 mM dig-11-dUTP!

   b. You have run out of the Klenow DNA Polymerase I, and instead of ordering some more, you decide to use left over Taq Polymerase from the RDM module.