**Miracle of Molly 5280 by: Amanda M. Faison** (complete the questions in your lab notebook! Some questions will require you to answer with detail!!!)

1. Describe how Lisa determined that Molly had Fanconi anemia (FA)?
2. Describe FA. Describe Molly’s symptoms.
3. How is it possible that Jack and Lisa Nash had a child with FA?
4. Due to Jack and Lisa’s Jewish descent, what are the odds they would have a child with FA? General population?
5. What is PGD? Explain. How can PGD be used to help Molly Nash?
6. At what age did Molly’s bone marrow begin to fail?
7. What were the signs that Molly’s bone marrow began failing?
8. How many failed IVF attempts had Jack and Lisa tried before they had success?
9. What conditions must the embryo meet before it could be implanted into the uterus of Lisa?
10. How often did Molly have to have her bone marrow checked for pre-leukemic cells?
11. What technique was used to test Molly’s bone marrow?
12. The umbilical cord and the placenta are considered “lifelines.” Explain that statement.
13. Explain why Dr. Buck looked at Lisa after the delivery of her son and said “here are your babies.”
14. List the Pros and Cons of PGD.
15. What would you do if you had a child with FA or another terrible genetic disorder?
16. List the names of Jack and Lisa’s two other children.
17. What are the ethical issues surrounding PDG?

**Miracle of Molly 5280 by: Amanda M. Faison** (complete the questions in your lab notebook! Some questions will require you to answer with detail!!!)

1. Describe how Lisa determined that Molly had Fanconi anemia (FA)?
2. Describe FA. Describe Molly’s symptoms.
3. How is it possible that Jack and Lisa Nash had a child with FA?
4. Due to Jack and Lisa’s Jewish descent, what are the odds they would have a child with FA? General population?
5. What is PGD? Explain. How can PGD be used to help Molly Nash?
6. At what age did Molly’s bone marrow begin to fail?
7. What were the signs that Molly’s bone marrow began failing?
8. How many failed IVF attempts had Jack and Lisa tried before they had success?
9. What conditions must the embryo meet before it could be implanted into the uterus of Lisa?
10. How often did Molly have to have her bone marrow checked for pre-leukemic cells?
11. What technique was used to test Molly’s bone marrow?
12. The umbilical cord and the placenta are considered “lifelines.” Explain that statement.
13. Explain why Dr. Buck looked at Lisa after the delivery of her son and said “here are your babies”, not baby.
14. List the Pros and Cons of PGD.
15. What would you do if you had a child with FA or another terrible genetic disorder?
16. List the names of Jack and Lisa’s two other children.
17. What are the ethical issues surrounding PDG?