Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Concrete Review**

1. List 4 advantages for using concrete.
2. What is concrete used for in agriculture?
3. What do the following terms mean when referring to quality concrete:
   1. Durability
   2. Strength
   3. Water tightness
   4. Wear resistance
4. Define the following term when referred to fresh concrete:
   1. Consistency
   2. Uniformity
   3. Workability
5. Portland cement is made of a combination of what ingredients?
6. How is Portland cement made?
7. What two types of aggregates are there?
8. What is considered a coarse aggregate and what is considered a fine aggregate?
9. What is the mixing ratio for concrete?
10. How can concrete be mixed?
11. What must be done prior to pouring a concrete foundation?
12. What can be placed in a foundation to reinforce it prior to pouring concrete?
13. What are four tools used to pour concrete?
14. What does the term floating mean when referring to concrete?
15. What do you need to consider before pouring a concrete foundation?
16. You are going to pour a concrete foundation for your new shop. The slab will be 40’X50’X8” with 1’X2’ footing and 3 vertical 1’X2’ beams and 2 horizontal 1’X2’ beams. Answer the following questions:
    1. How many yards will you need with 5% shrinkage?
    2. How much will it cost at $65/yard?
    3. How many eight yard trucks will it take?
    4. How many yards of cement, sand and gravel will you need?
    5. How many yards of sand gravel and cement will you need?