

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

## “How House Construction Works” Question Sheet

**Directions:** During your barn construction project you are required to read the article in your folder, then answer the following questions completely. Completely means to answer in complete sentences with proper grammar. No credit will be given for “one word” or “one phrase” answers. The answers to the questions can be found in the reading of the article. This assignment is due when the barn project is handed in. Both students of the group must complete this assignment. You are on your own to complete this assignment. Periodically I will go over sections of this material in class and check on your progress.

1. How many housing units are there in the United States and what are most of them referred to as?

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2. What is the definition of a house?

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3. Explain the hierarchy of who builds a house? Does the same person do all of the work?

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4. When a place is selected to build a house, what is the first operation that must happen? What are the three different types of foundations?

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5. Explain what a **slab** foundation is and how it is built. Also, give some of its advantages and disadvantages.

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6. Explain how a **basement** foundation is built. Also, give some of its advantages and disadvantages.

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7. Explain what a **crawl space** foundation is and how it is built. Also, give some of its advantages and disadvantages.

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8. In floor framing on a crawl space or basement, how is the floor supported away from the edges of the foundation? (Give exact measurements!)

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9. When floor framing is done, what are the joists covered with?

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10. In wall framing, what are the walls made up of? How far apart are **studs** placed in a wall?

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11. Explain in detail what a **header** is and what its function is.

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12. What interrupts the pattern of **stud** placement on a wall?

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13. For the most part, what are used in framing a roof? What is the alternative?

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14. Name three advantages to using trusses for roof framing. What is one big disadvantage?

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15. In the article, explain the process for installing the trusses. How long did it take, how far apart are each truss?.....etc.

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16. Give a detailed description of the roofing process of a house. In your description explain what a ridge vent is and does, what aluminum flashing is for, and how long the process takes.

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17. Give a detailed explanation the siding process. What does “**dried-in**” mean?

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18. What are the two major types of drainage system used in residential construction?

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19. Why are the pipes under your sink shaped the way they are? Give a detailed description of a drainage system with a septic tank, be sure to fully explain each pipes purpose.

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20. Give three examples of the uniform plumbing code:

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21. What is involved in rough plumbing?

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22. Why are bathtubs usually installed first?

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23. Explain where the plumbing lines are located in each of the different foundations.

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24. What is an electrical system?

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25. Describe the process of installing the electrical system supply for a residential home.

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26. What is insulation used for? Describe the process of installing it.

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27. What is a vapor **barrier**?

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28. What is **drywall**?

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29. Briefly describe how **drywall** is installed.

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30. In the Finish Up stage of home construction describe the following:

HVAC

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Finish Electrical

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Kitchen and bathroom cabinets and counters

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Finish Plumbing

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Wall Trim

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Paint

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Carpeting and Tile

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The Final Punch List

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