Stairs

Text, Pages 353–368 Name ______ Date _____ Score _____ Part I: Matching Match the correct term with its description listed below. Place the corresponding letter on the space provided. A. Balusters H. Plain stringer O. Stringer B. Circular I. Rise P. Total rise C. L I. Riser O. Total run D. Landing K. Run R. Tread E. Newel L. Stairway S. U F. Nosing M. Stairwell T. Winder G. Open N. Straight run 1. A series of steps connecting two or more levels of a structure. 2. Stairs that require a long open space. 3. A type of stairs with one landing at some point in the middle of the run. 4. Stairs with two flights of steps parallel. 5. Stairs with pie-shaped steps in place of the middle landing. 6. The basic shape of these stairs stems from an irregular curve or arc. 7. Vertical components that support the handrail on open stairs. 8. Floor area at the top, bottom, or along the flight of stairs. 9. The primary posts of the handrail. 9. 10. The rounded tread overhang that extends past the face of the riser. 11. Stairs without walls on one or both sides. 12. A stringer notched or cut to fit the shape of the steps. 12. _____

13. ____

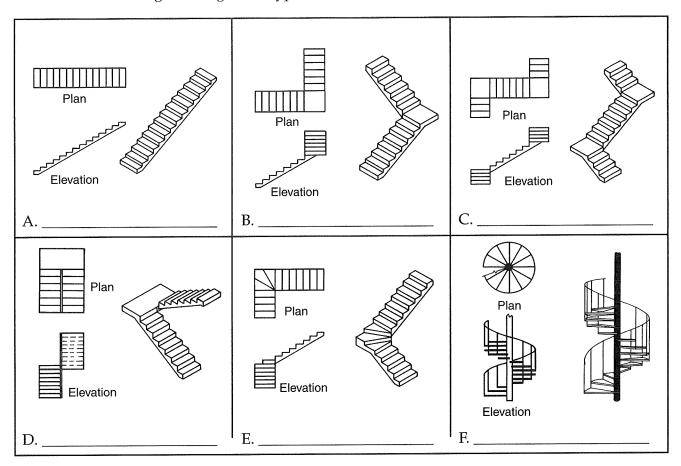
13. Vertical distance from the surface of one tread to the

surface of the next tread.

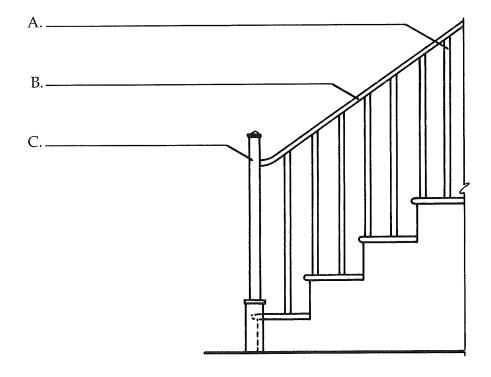
14. Vertical face of a step.	14
15. Distance from the face of one riser to the face of the next riser.	15
16. Opening in which a set of stairs is constructed.	16
17. A structural member that supports the treads and risers.	17
18. The total vertical height of the stairs.	18
19. The total horizontal length of the stairs.	19
20. The horizontal member of each step.	20
Part II: Completion Complete each sentence with the proper response. Place you	ur answer on the space provided
1. The prime considerations in stair design should be easy ascent/descent and	1
2 stairs are usually made from construction lumber, constructed on the site, and steeper than main stairs.	2
3. Wide U stairs have a well between the two flights. In U stairs, the space is small or nonexistent.	3
4. In homes where little space is available, stairs may be a solution.	4
5 stairs require a lot of space and are expensive to build.	5
6. A is sometimes called the carriage.	6
7. The main stairway should be at least wide.	7
8. When constructing plain stringers, nail the treads and risers directly to the	8
9. Glue and hold the treads and risers in place permanently on plain stringer stairs.	9
10. On housed stringers, hold the treads and risers in place; all three components are then glued and nailed.	10
Part III: Short Answer/Listing Provide brief answers to the following questions.	
1. What is the term used to describe a set of L stairs that ha	is a landing near the top or bottom?
2. In a set of winder stairs, how is the width of the "pie-sha	nped" steps determined?

Ná	ame
3.	List the three factors to consider when designing a set of stairs
4.	In a set of stairs requiring more than two stringers, where should the third stringer be placed?
5.	List advantages and disadvantages of plain stringer stair construction.
6.	What method is commonly used to hold the treads and risers in housed stairs?
7.	What is the ideal range for riser height?
	List the four rules to follow when determining the rise-run ratio
	Rule 2:
	Rule 3:
	Rule 4:
9. ·	Why is there always one less tread than there are risers?

10. Label the drawings of the general types of stairs below.



11. Locate and label the items identified on the stairway drawing below.



10 6 1 1 1 1 6 11 1 1 1 1 1 1 1 1 1 1 1			
. Calculate the following design elements for a set of stairs for a two-story home. The total rise is 72", with a standard tread of 11-1/2". A 1" nosing is required and the stairs should have an acceptable slope of 30° to 35°. Calculate the following: Total Run =			
			Number of Risers =
Riser Height =			
	Treads =		
Run of a Step =			
Part IV: Multiple Choice			
Select the best answer and write the corresponding letter in	the space provided.		
1. Of the following house styles, which is most likely to have stairs?	1.		
A. Garrison.B. Salt box.C. Southern colonial.D. All of the above.			
2. The type of stairs used most in residential construction is:	2		
A. L stairs.B. Straight run.C. Spiral.D. Winder.			
3. Circular stairs have steps.	3		
A. triangularB. pie-shapedC. trapezoidalD. winder			
4. Enclosed stairs are also known as:	4		
A. Closed stairs.B. Housed stairs.C. Box stairs.D. All of the above.			
5. Plain stringers are constructed for:	5		
A. Uncarpeted main stairs.B. Service stairs.C. Circular stairs.D. All of the above.			

Name _____

6. Housed stringers are:	6
 A. Constructed from finished lumber. B. Usually purchased precut or preassembled. C. Sometimes made from 1" × 12" or 2" × 12" lumber. D. All of the above. 	
7. The actual size of an oak tread used in housed stringer construction is thick.	7
A. 3/4" B. 1" C. 1-1/16" D. 1-1/4"	
8. All stairs should have at least one handrail. The recommended handrail/guardrail height is:	8
 A. 30" along the incline and 36" at the landing. B. 32" along the incline and 36" at the landing. C. 34" along the incline and 38" at the landing. D. None of the above. 	
9. Minimum stairway headroom is:	9
A. 6'-0" B. 6'-6" C. 7'-0" D. 7'-5"	
10. Recent code changes require handrails for:	10
A. All stairs, but not ramps.B. Steep stairs.C. All stairs and ramps.D. Handrails were not addressed.	