ELC 113 Basic Wiring I Worksheet 5-1 (4th Ed.)	Name:
Blueprint Reading	Date:
True/False Indicate whether the statement is true or false.	
1. An architect is a qualified person who create	es and designs drawings for a residential construction project.
2. A girder is the building skeleton that provide	es the structural framework of a house.
3. A sill is a length of wood that sits on top of t	the foundation and provides a place to attach the floor joists.
4. Rafters are the parts of a house that form the	vertical framework for the walls.
5. A circle with a dot in the middle is the standard	ard electrical symbol for a duplex receptacle.
Multiple Choice Identify the choice that best completes the statement or a	nswers the question.
<ul> <li>6. A is the framing member used to</li> <li>a. bottom plate</li> <li>b. rafter</li> <li>c. band joist</li> <li>d. leader</li> </ul>	o stiffen the ends of floor joists where they rest on the sill.
7. The is a table used on building property in the construction of a house.  a. scale b. schedule c. legend d. title block	plans to provide information about specific equipment or
<ul> <li>8. Which of the following are names for the buil</li> <li>a. Blueprints</li> <li>b. Construction drawings</li> <li>c. Working drawings</li> <li>d. All of the above</li> </ul>	ding plans used by craftspeople to build houses?
9. The is a drawing that shows build a. elevation drawing b. sectional drawing c. detail drawing d. floor plan	ding detail from a view directly above the house.
10. A(n) shows the side of the house a. floor plan b. elevation drawing c. sectional drawing d. detail drawing	that is facing a certain direction.

1	<ul> <li>1. A(n) is a cutaway view that allows you to see the inside of a building.</li> <li>a. floor plan</li> <li>b. elevation drawing</li> <li>c. sectional drawing</li> <li>d. detail drawing</li> </ul>
12	<ul> <li>A(n) is a solid dark line that is used to show the main outline of the building, including exterior walls, interior partitions, and interior walls.</li> <li>a. object line</li> <li>b. dimension line</li> <li>c. hidden line</li> <li>d. centerline</li> </ul>
13	A(n) is a straight dashed line that is used to show the lines of an object that are not visible from the view shown in the plan.  a. object line b. dimension line c. hidden line d. centerline
14	Most residential plans are drawn on a scale of = 1'.  a. 1/8" b. 1/4" c. 1/2" d. 1"
15	If a blueprint is drawn with a scale of 1/8" = 1', a line 1 inch long will equal on the blueprint.  a. 8" b. 2' c. 8' d. 4'
16.	Common symbols used on blueprints are usually based on the symbols developed by the  a. National Fire Protection Association  b. National Electrical Code  c. National Association of Electrical Manufacturers  d. American National Standards Institute
17.	The is the bottom of the wall framework and rests on the top of the sub-floor.  a. bottom plate b. floor joist c. sill d. band joist
18.	If a set of blueprints has a scale of $1/8$ " = 1', a wall that is actually 17' long will be long on the blueprint.  a. $1-7/8$ "  b. $2-1/8$ "  c. $2-1/4$ "  d. $4-1/4$ "

	19.	A(n) is often shown as a broad line of long dashes followed by two short dashes. Arrows are located at each end of the line.
		a. section line
)		b. object line
-		c. hidden line
		d. leader
	20.	A(n) shows the location of items such as kitchen cabinets and appliances located on or against a wall in a kitchen.
		a. exterior elevation drawing
		b. interior elevation drawing
		c. floor plan
		d. section drawing
	21.	A(n) shows information such as the location of a house, walkway, or driveway on the building lot.
		a. exterior elevation drawing
		b. floor plan
		c. plot plan
		d. sectional drawing
	22.	A symbol is a standardized drawing on a building plan that shows the location and type of a particular
		material or component.
		a. True
		b. False
1	23.	The diagonal braces or solid wood blocks installed between floor joists and are used to distribute the weight put on the floor are called
		a. ribbons
		b. bridging
		c. sills
		d. footings
		u. Tootings
Comp	pletio	$\mathbf{n}$
Comp	lete e	ach statement.
	24	The votice of the size of a drawn chiest and the chiests actual size is the
	24.	The ratio of the size of a drawn object and the object's actual size is the
	25.	A(n) is a standardized drawing on the building plan that shows the location and
		type of a particular material or component.
	26.	A(n) is a series of short and long dashes used to designate the center of items such
		A(n) is a series of short and long dashes used to designate the center of items such as windows and doors. They provide a reference point for dimensioning.
		The scale to which a drawing has been done is usually found in the
	28.	Because many plans may use symbols that are not standard, a(n) is usually included
		in the plans to show the symbols used on the building plans and what they mean.

	29.	are used to form the roof structure of the building and are supported by the top
		plate.
	30.	The scale on a building plan is 1/4" = 1'. If a wall on the blueprint measures 3-1/2", the actual length of the wall is feet.
	31.	On residential blueprints, are used to provide the sizes and other pertinent information about the various doors and windows used in the building.
	32.	In a set of blueprints, the drawing scale, name of the building project, the name of the architectural firm, and the date of completion are found in the
Short	t Ans	wer
	33.	Draw the symbol for a recessed incandescent light fixture is
	34.	Draw the symbol for a special purpose outlet (dishwasher).
×	35.	Draw the symbol for a single receptacle.
	36.	Draw the symbol for a floor receptacle.
	37.	Draw the symbol for a three-way switch.
	38.	Draw the symbol for a duplex receptacle.
	39.	Explain why the electrical plans are important to electrical contractors.

40. Explain why the specifications are important to electricians.