

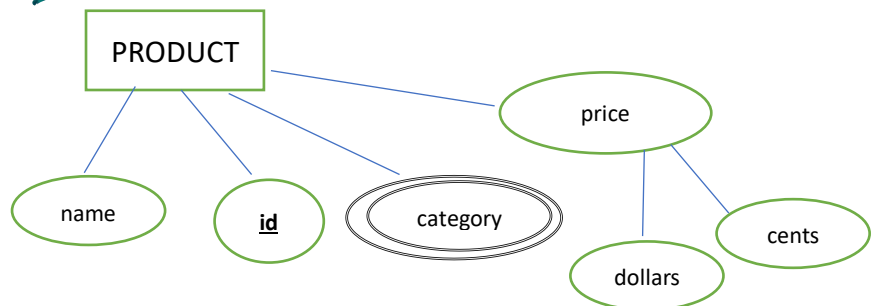
Worksheet 5 – CIS3530

- This is an optional and ungraded worksheet

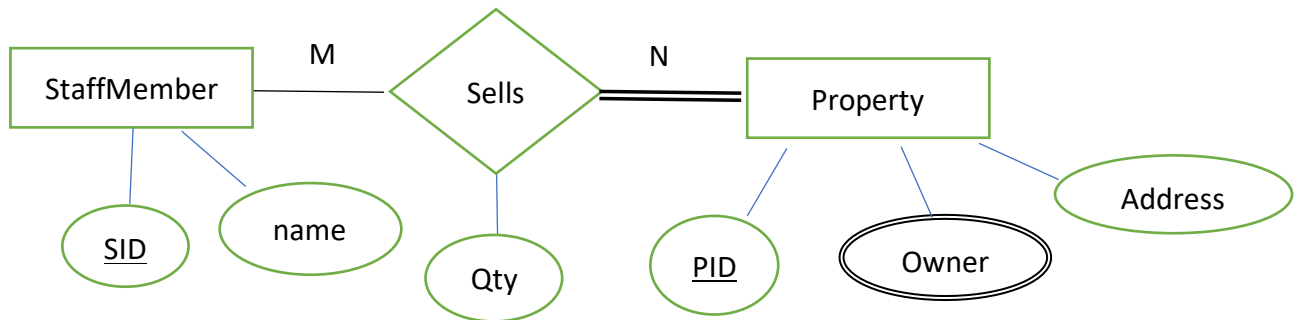
Question 1. Identify the following in the given figure using arrows. 1a shows an example. There may be more than one in a category – you may identify just one. Write 'None' if none of that category exists in this figure.

- a. Entity Type
- b. Simple Attribute
- c. Composite Attribute
- d. Derived Attribute
- e. Key Attribute
- f. Entity Set
- g. Multi-valued Attribute
- h. Single-valued Attribute

199	Doll	Toys	12 45
12	Dining Chair	{Kitchen, Furniture}	239 00
55	Xbox	{Electronic, Multimedia System}	250 99



Question 2. Given the ER diagram below, state true or false for each of the statements given below:



- i. A Staff member may or may not sell a property.
- ii. Address is a composite attribute of Property – it consists of different sub-parts such as street, city, pincode.
- iii. A staff member is allowed to sell only one property.
- iv. A property can be sold by one or more staff members.
- v. A property can be owned by one or more people.
- vi. The following is a valid entity of Property for this model:
 PID: 119900
 Owner: Ritu
 Address: 50 Stone Road, Guelph, Ontario

Question 3: The cardinality ratio depends on the real-world meaning of the entity types involved and is defined by the specific application. For the binary relationships below, suggest cardinality ratios based on common-sense meaning of the entity types. Clearly state any assumptions you make.

	Entity 1	Cardinality Ratio	Entity 2
1.	Student		SocialSecurityCard
2.	Student		Teacher
3.	ClassRoom		Wall
4.	Country		CurrentPresident
5.	Course		TextBook
7.	Student		Class
8.	Class		Instructor
9.	Instructor		Office

