Name:	

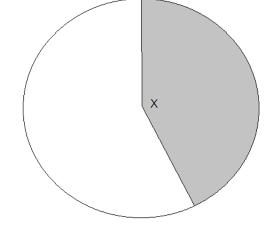
QUIZ - MATH GRADE 10

1. (10%) Juan bought a bike for 120 Euros and sold it with 35% loss. What is the price in which he sold the bike?

- 2. (20%) The price of a shirt is M\$. In case the price decreases by 40% and then increases by 40%, find:
 - a. (10%) The new price in terms of M written as a simplified fraction and decimal
 - b. (10%) The overall change in price in percent.

- 3. (25%) It is known that the area shaded is 40% of 90% of the circle.
 - a. (10%) Find the percentage of the circle that is shaded and not shaded. Write your answer as a fraction and decimal. (Diagram not to scale).

Shaded: _____ Not Shaded: _____



b. (5%) Find the angle x

c. (10%) It is known that the area shaded is π cm². find R in its most simplified form.

4.	(15%) The price of a product is P\$. 16% discount is applied to the product after which the price is 105\$.	
	a. (10%) Find the price of the product before the dis	count.
	b. (5%) Find the discount	
5. (30%) Given the following diagram of a façade of a building. The height h of the building is 40% of its width 4x as seen in the diagram. The square windows have side length 90% <u>less</u> than the width of the building. <u>Diagram not to scale</u> .		
а	a. (6%) Find the area of the entire façade in terms of x.	4x
ŀ	b. (6%) Find the area of each window in terms of x	
C	c. (6%) Find the <u>exact</u> percentage of the area that is shaded and not shaded.	
Ċ	d. (6%) Find the percentage by which the area shaded is bigive your answer with 2 significant figures	gger than the area not shaded,
	a (60%) Find the exect percentage by which the executed the	adad is smaller than the area
e	 e. (6%) Find the <u>exact</u> percentage by which the area not sh shaded. 	aueu is smaner man me area