

Name : _____

Word Problems on Inequality

- 1 If 5 times a number is increased by 4, the result is at least 19. Find the least possible number that satisfies the given condition.
- 2 The length of a rectangle is 4 more than twice the width. The perimeter is 56 cm. Find the width and the area of the rectangle.
- 3 Your sister saved \$2,000 for summer vacation. Her airplane ticket is \$637. Write and solve an inequality to find out how much she can spend for other activities.
- 4 A full year club membership costs \$325 with no extra cost. A monthly membership costs \$100 and \$30 as service tax. Which membership is cheaper and by how much?

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Answers

- 1 If 5 times a number is increased by 4, the result is at least 19. Find the least possible number that satisfies the given condition.

Ans: $x \geq 3$

The least possible number that satisfies the condition is 3

- 2 The length of a rectangle is 4 more than twice the width. The perimeter is 56 cm. Find the width and the area of the rectangle.

Ans: Width = 8 cm, Area = 160 cm^2

- 3 Your sister saved \$2,000 for summer vacation. Her airplane ticket is \$637. Write and solve an inequality to find out how much she can spend for other activities.

Ans: $x \leq \$1,363$

She can spend \$1,363 or less for other activities.

- 4 A full year club membership costs \$325 with no extra cost. A monthly membership costs \$100 and \$30 as service tax. Which membership is cheaper and by how much?

Ans: Full year membership is cheaper by \$1,235.