Math – Quiz 5 (10 marks)

Student's Name: _____

Grade 10th

مدارس البكالوريا
BACCALAUREATE SCHOOLS

28th October, 2025

Q1) A certain medication must be stored at a temperature, t, that may range between a low of 45° Fahrenheit and a high of 85° Fahrenheit. Write an inequality that represents the allowable range of Fahrenheit temperatures?

Q2) An ocean depth finder shows the number of feet in the depth of water at a certain place. The difference between d, the actual depth of the water, and the depth finder reading, x, is $|d - x|$ and must be less than or equal to $0.05d$. If the depth finder reading is 620 feet, what is the maximum value of the actual depth of the water, to the nearest foot?

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Q3) Solve the following:

$| x - 3 | = 7$

$| 2x + 5 | = 3$

$| 4x - 6 | = 2x + 8$

$| x + 1 | < 4$

$| 3x - 2 | \geq 7$

$| x - 4 | + 2 \leq 5$