

Bellwork 8/23 (5 Minutes)

[Linear Models]

On an arbitrarily chosen Planet X, the average global temperature (Q_{avg}) is currently increasing at a rate of 0.156°C per decade. Right now, the planet's average global temperature is at 21.4°C .

- 1 Write an equation that models the average global temperature of Planet X in t decades from now.
- 2 Using your linear model, approximate the amount of time it will take for the planet to exceed a Q_{avg} of 25°C .

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