

Form #155729161218

Step-By-StepAnswersSave this Test! / Turn Into a Puzzle or Board Game!

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Solve:

- 1) A roast turkey is taken from an oven when its temperature is 202°F and placed on a table in a room where the temperature is 75°F . The temperature of the turkey over x minutes is given by $H = f(x)$. What does $f'(100) = -12$ mean?
- 2) A dozen cupcakes is taken from an oven when its temperature is 200°F and placed on a table in a room where the temperature is 75°F . The temperature of the cupcakes over x minutes is given by $H = f(x)$. $f(x) = -9x - 20$ Find the average rate of change of H with respect to x when minutes is changed from $x = 45$ to $x = 94$.
- 3) The number of people in North Dakota affected by the flu over September is defined by $N = f(x)$ where x is the day of the month. What is the meaning of $f'(x)$?
- 4) A manufacturer produces jars of peanut butter. The cost of producing x jars is $C = f(x)$ dollars. $f(x) = -x^2 + x + 2$. Find the instantaneous rate of change of C with respect to x when $x = 25$.
- 5) The number of people in Iowa affected by the flu over December is defined by $N = f(x)$ where x is the day of the month. What is the meaning of $f'(x)$?
- 6) The number of people in Alabama affected by the flu over October is defined by $N = f(x)$ where x is the day of the month. What does $f'(10) = 4948$ mean?