

YOUR NAME: _____

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Read each problem **very carefully** before starting to solve it. Each problem is worth 10 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. The following table gives, for a certain man, his weight $W = W(t)$ in pounds at age t in years:

$t =$ Age in years	$W =$ Weight in pounds
4	36
8	54
12	81
16	128
20	156
24	163

- Make a table showing, for each of the 4-year periods, the average yearly rate of change in W .
- Describe in general terms how the man's gain in weight varied over time. During which 4-year period did the man gain the most in weight?
- Estimate how much the man weighed at age 30.
- Use the average rate of change to estimate how much he weighed at birth. Is your answer reasonable?