

Modeling Exponential Growth

Exponential Growth

$$y = a(1 + r)^t$$

A newly hatched catfish typically weighs about 0.3 gram. During the first six weeks of life, its growth is approximately exponential, increasing by about 10% each day. Find the weight of the fish at the end of six weeks.

↳ 42 days

- (a) Write an exponential function to model this scenario.
- (b) To the nearest thousandth, what is the weight of the fish at the end of six weeks?

$$\begin{aligned} a &= 0.3 & y &= a(1 + r)^t \\ r &= .10 & &= .3(1 + .10)^{42} \\ t &= 42 & &= .3(1.10)^{42} \end{aligned}$$

Exponential Function Word Problems And Solutions

Tao Wei



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