

Lindsay went to her doctor to get a new prescription for toenail fungus. Her doctor talked to her about the importance of taking her medicine regularly. When explaining this new medication to Lindsay, he used the following half-life function, where t represents time in hours:

$$M(t) = 60 \left(\frac{1}{2}\right)^{\frac{t}{12}}$$

Explain what each part of the equation would represent.

Initial amount of medication =

Length of half-life cycles =

Amount of medicine present after t hours =

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