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Cats Kill Rats Calculati  

Killing Rats with Cats


Cats Killing Rats Time

ChatGPT Programming Tutori

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MI

If 6 cats kill 6 rats in 6 minutes, how many will be needed to kill 100 rats in 50 minutes?



If 6 cats can kill 6 rats in 6 minutes, then one cat can kill 1 rat in 1 minute. Therefore, to kill 100 rats in 50 minutes, 100 cats will be needed.



MI

That is not correct.



You are correct, my previous answer was incorrect. To determine the number of cats needed to kill 100 rats in 50 minutes, we need to determine the rate at which the cats are killing rats. If 6 cats can kill 6 rats in 6 minutes, then the rate at which the cats are killing rats is 1 rat per minute per cat. To kill 100 rats in 50 minutes, we would need $100 \text{ rats} \times 1 \text{ rat per minute per cat} = 100 \text{ rats killed in 50 minutes}$. I apologize for any confusion caused by my previous answer.



MI

That is also not correct. If 6 cats can kill 6 rats in 6 minutes, then 1 cat can kill 1 rat in 6 minutes, right?



I apologize for the confusion, you are correct that if 6 cats can kill 6 rats in 6 minutes, then 1 cat can kill 1 rat in 6 minutes.

To determine the number of cats needed to kill 100 rats in 50 minutes, we need to calculate the total number of rats killed per minute. To do this, we can divide the total number of rats killed (6) by the total time in minutes (6), which gives us 1 rat per minute.

Knowing that 1 cat can kill 1 rat per 6 minutes, to kill 100 rats in 50 minutes we need to calculate how many minutes it would take for 100 cats to kill 100 rats.

So, $100 \text{ rats} / 1 \text{ rat per minute} = 100 \text{ minutes} / 6 \text{ minutes per rat per cat} = 16.6 \text{ cats}$.

So, in this scenario, approximately 17 cats would be needed to kill 100 rats in 50 minutes.

