Question 1	Question 2
E. Coli is a very strong bacteria used in many	Tony Hawk is draining a pool so he can use it as
scientific studies. How many bacterium do you	a halfpipe. How much water did it start with?
have after 3 hours in ideal conditions?	
You must create an equation for full credit	After 10 hours, there are 13,000 gallons left.
Tod Trust create an equation for fair create	Arter 10 modrs, there are 15,000 ganons left.
Question 3	Question 4
	Question 4
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Maya has invested \$1000 in an account that	Radioactive Polonium (Po-210) was used by
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	Radioactive Polonium (Po-210) was used by the Russian government to poison a dissident
Maya has invested \$1000 in an account that	Radioactive Polonium (Po-210) was used by the Russian government to poison a dissident in 2018. You started with 40 grams of Po-210 in
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Facts

- E.Coli reproduces very quickly. In ideal conditions, the number of bacterium double every 20 minutes.
- At the start of your experiment, the sample you started with contained 200 individual bacteria.

Facts

- After 24 hours, there are 10,200 gallons left in the pool.
- It is draining at a constant rate.

Facts

- It has been 9 years since she invested her money.
- Maya's return from the bank is 8% annually.
 How could you make this into a constant multiplier?
 (Hint: it's not x8)

Facts

- 966 days have passed since you started your polonium experiment.
- Po-210 has a half-life of 138 days. This means half of your sample decays every 138 days.

Question 1

E.Coli is a very strong bacteria used in many scientific studies. How many bacterium do you have after 3 hours in ideal conditions?

You must create an equation for full credit

$$y = 200(2)^{9}$$

1024001

Facts

- E.Coli reproduces very quickly. In ideal conditions, the number of bacterium double every 20 minutes.
- At the start of your experiment, the sample you started with contained 200 individual bacteria.

Question 2

Tony Hawk is draining a pool so he can use it as a halfpipe. How much water did it start with?

After 10 hours, there are 13,000 gallons left.

- After 24 hours, there are 10,200 gallons left in the pool.
- It is draining at a constant rate.

Question 3

Maya has invested \$1000 in an account that gives interest. How much does she have now?

Facts

- It has been 9 years since she invested her money.
- Maya's return from the bank is 8% annually.
 How could you make this into a constant multiplier?
 (Hint: it's not x8)

Radioactive Polonium (Po-210) was used by the Russian government to poison a dissident in 2018. (Russia is seriously evil, you guys). You started with 40 grams of Po-210 in your lab. How much is there now?

Facts

- 966 days have passed since you started your polonium experiment.
- Po-210 has a half-life of 138 days. This means half of your sample decays every 138 days.

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