

## Genetics

### Minion Reproduction

*Dr. Nefario needs to make some new minions when he upgrades his secret lab. He is able to control their reproduction through a top secret process, and then make them grow really quickly. Dr. Nefario can do one of two things...*

- *make exact copies of a minion (asexual reproduction) through cloning*
- *make minions with two parents (sexual reproduction) by taking DNA from each parent minion and combining them*

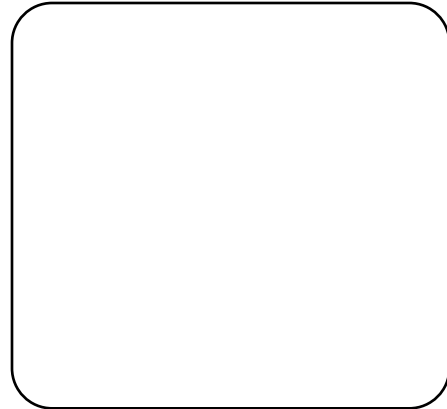
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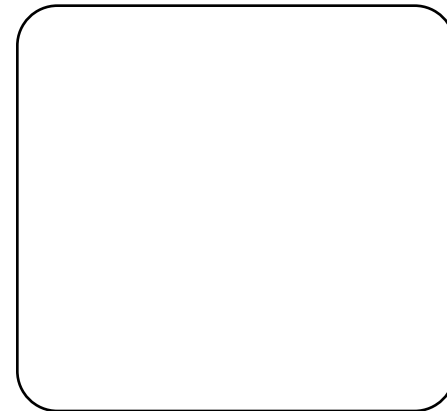
What will the offspring look like if genetic material from these minions was used for sexual reproduction?

Draw the offspring in the box:



What will the offspring look like if genetic material from this minion was used for asexual reproduction?

Draw the offspring in the box:



Dr. Nefario's new lab will have lots of tall, narrow spaces that need cleaning. Currently, the machine that makes new minions will only accept DNA from the two minion types seen here. To

create the best minions for this cleaning job, should he set his machine for asexual or sexual reproduction? \_\_\_\_\_

Once the machine is set, which minion (or both minions) should have their DNA added to the machine? \_\_\_\_\_

Explain your choice: \_\_\_\_\_

