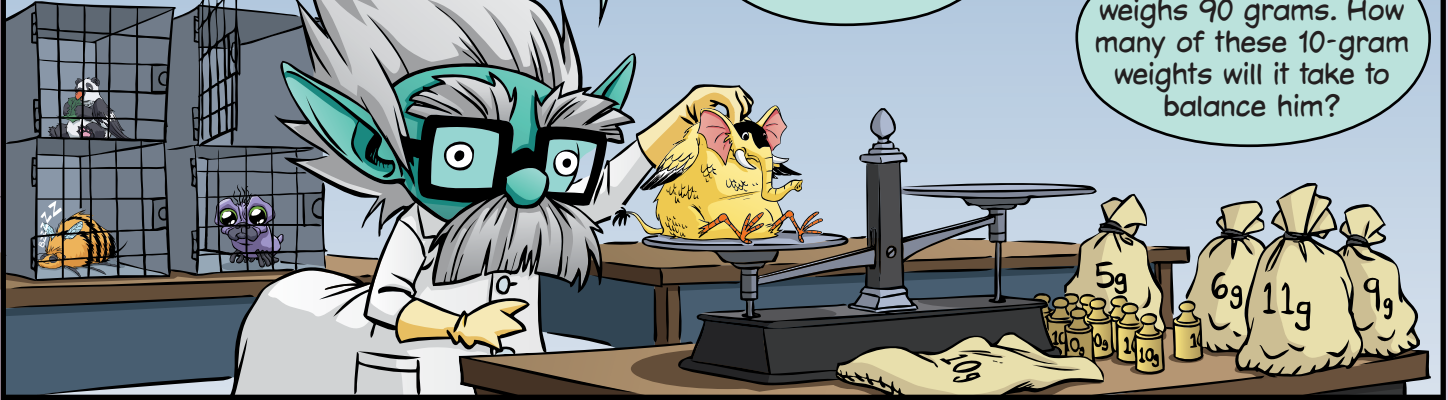


THE Lab

BALANCE

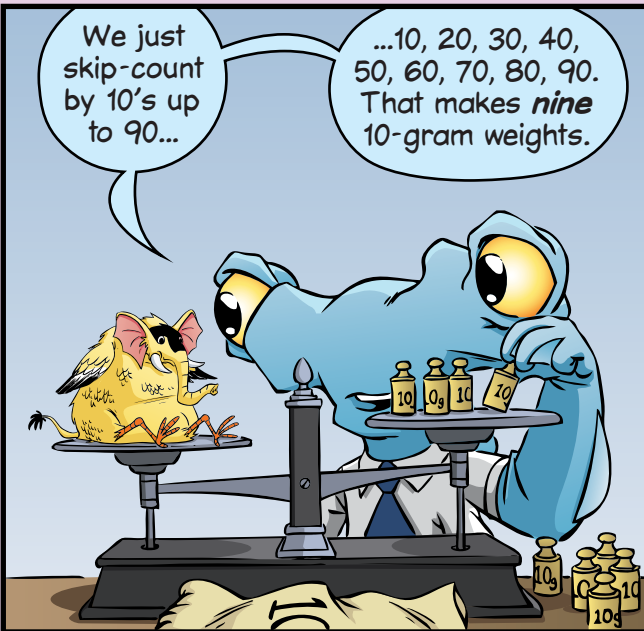


This is a balance scale. It is used to compare weights.

I can place an object that I want to weigh on one side, and balance it with these weights on the other side.

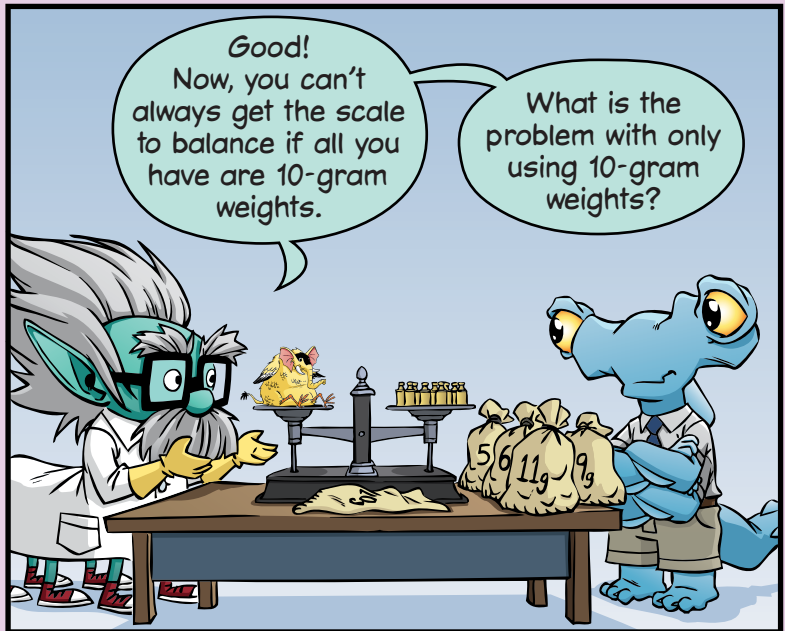
Before today's lesson, I weighed some things.

This elefinch weighs 90 grams. How many of these 10-gram weights will it take to balance him?



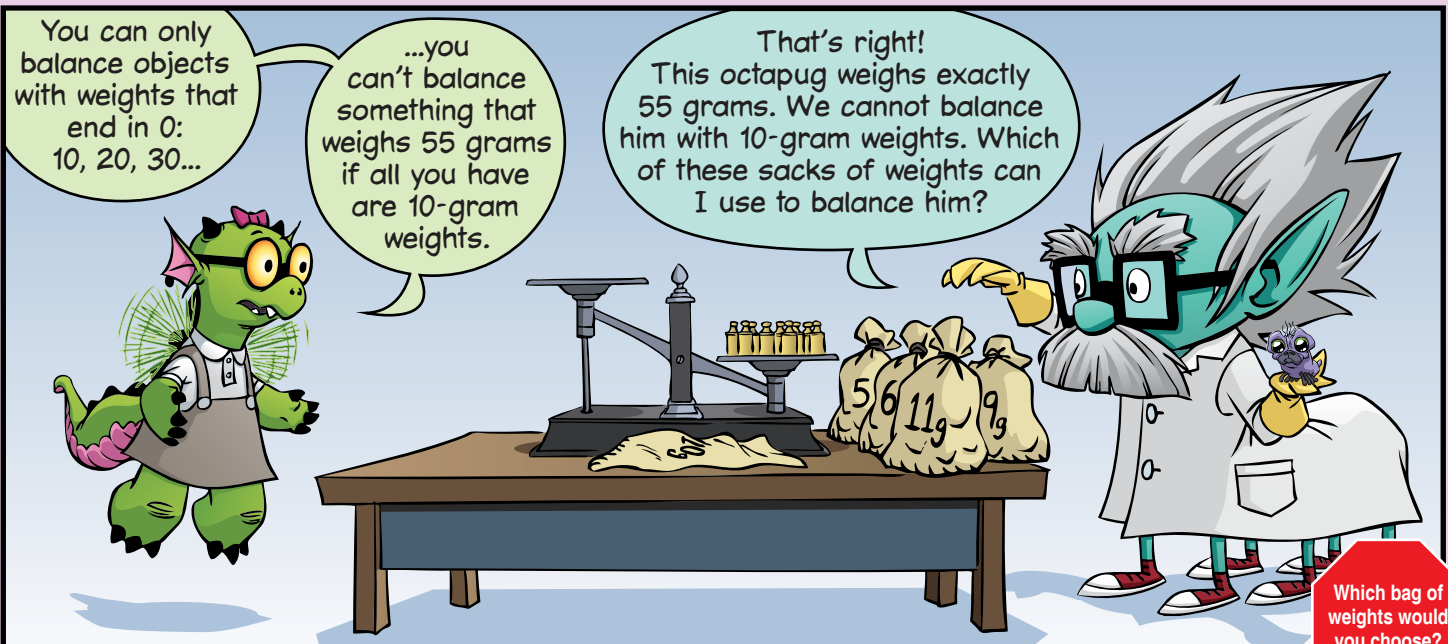
We just skip-count by 10's up to 90...

...10, 20, 30, 40, 50, 60, 70, 80, 90. That makes *nine* 10-gram weights.



Good! Now, you can't always get the scale to balance if all you have are 10-gram weights.

What is the problem with only using 10-gram weights?



You can only balance objects with weights that end in 0: 10, 20, 30...

...you can't balance something that weighs 55 grams if all you have are 10-gram weights.

That's right! This octapug weighs exactly 55 grams. We cannot balance him with 10-gram weights. Which of these sacks of weights can I use to balance him?

Which bag of weights would you choose?

