



DINOSAURS

VS

ALIENS



Do you know how to tell the difference between a dinosaur and an alien? It can be tricky. Fortunately, a lot of schools now have classes in this subject. What? They don't teach that at your school? Well, let's review the basics.

Feathers are rarely found on space alien monsters, but were common on dinosaurs. Velociraptors, for instance, even had big feathers like birds. A fossil consisting of about $\frac{1}{2}$ of a velociraptor arm was found to have had knobs for 6 large feathers. If the rest of the arm is similar to the sample, how many big feathers did the whole arm have?

Eyes can be another giveaway. Many aliens don't have them at all! Dinosaurs, on the other hand, all have them. Some, like Tyrannosaurus rex appear to have had eyesight that was way better than humans! Suppose a T. Rex had $\frac{20}{5}$ vision, which is roughly the same as an eagle. This means that what a person can see clearly at 5 feet, the T. Rex can see clearly at 20 feet. If a person can see a hot dog from 160 feet away, how far away can a T. Rex see it?

If that monster coming to eat you is crawling on the walls or ceiling, it is probably an alien, not a dinosaur. On Earth, animals like spiders can walk upside-down due to having thousands of tiny hairs on the bottom of their feet. These hairs are covered by even tinier hairs called "setules" and look a bit like bottle brushes. They give the feet extra "stickiness" due to increased surface area. Dinosaurs did not have these, but apparently many aliens do. If an 8-legged alien spider monster has 634,000 setules per foot, how many setules does it have in all?

Finally, we must discuss the slime. Unlike dinosaurs, space aliens are always oozing and drooling the stuff. On Earth, we can make slime by mixing 8 ounces of white glue, 2 tablespoons of contact lens solution, and 1 tablespoon of baking soda together. This will make about 8 ounces of slime! How much of each ingredient do you need to make 48 ounces of slime?