A scientist want to design a net to catch tardigrades so that she can learn more about them. The first net she builds has holes 10 mm long. Are these holes bigger or smaller than a water bear? Will the net work?

Air filters in homes have holes about 0.01 mm wide. Are the holes smaller than pollen grains? Will the filters catch pollen?

Some scientists found out that tardigrades can survive in space. An astronaut wants to take more tardigrades into space with him to do some more research. He has a tube 10 mm long to carry all of his specimens. Approximately how many water bears could he fit inside the tube to take with him into space?

If people wanted to bring woolly mammoths back to life, the mammoths would need a place to live. Maybe they could live on a football field and eat the grass there. How many mammoths could you put along the length of a football field?

Flo wants to know who would win in a fight between a tardigrade and a shark, but the fight is only fair if the animals are the same size. How much longer would a tardigrade need to be to become approximately the same length as a shark?

How many times smaller would a *T. rex* have to be to become too small to see?

Evil Vee wants make a giant shark to swim up the St. John’s River and attack Jacksonville. The giant shark is 100 times longer than a great white shark. The St. John’s River is about 100,000 mm wide in Jacksonville. Is Evil Vee’s giant shark bigger or smaller than the width of the St. John’s River? Will it fit in the river? Will Evil Vee’s plan work?