Nothing but Paramecium

Paramecium are small single cell organisms. They can reproduce either by cell division or by conjugation (two cells coming together and changing material in the nucleus). Dr. Uni Sell had two containers that were exactly the same size. Assume that the organisms reproduced at exactly the same rate. In container "A" she put one paramecium and in container "B" she put two. At the end of 24 hours container "B" had 16 paramecia. After 48 hours container "B" had 128 paramecia and after 72 hours "B" had 1024. Assuming the same rate of reproduction, how many hours did it take container "A" to have 1024 paramecia?

Along with the answer, make sure that you show exactly how you determined the correct answer. Include any formulas and an explanation. To receive credit, you must explain what you did and why you did it. Have fun and good luck.