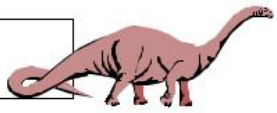
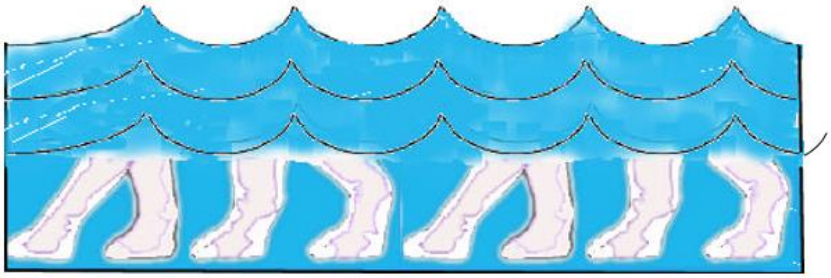
Problem of the Month

Digging Dinosaurs



Level A:

You are swimming under water in a lake and you see dinosaur feet in the water. You don't want to go to the surface in case they are not friendly dinosaurs. Below is a picture of what you see.



How many dinosaurs are standing in the lake?
Explain how you know. Use words and mathematical language to explain your solution.

Level B:

You want to go with your sister to the museum to see the dinosaur exhibit. The museum has three different plans to pay for going to see the dinosaur.

Museum Rate Plans

Plan A: Pay $ 3.00 per person to visit the Museum.

Plan B: Monthly membership is $8.00 for each person, but you can go as many times as you like during the month.

Plan C: A family membership for a month is $17.00. Everyone in your family can go as often as they like for a month.

You and your sister want to go see the dinosaur exhibit three times this month. Which plan should you buy to save money?

Explain your reasoning.

Level C:

It is summer vacation and you can go to the museum more often. The rates change for a summer special.

Museum Summer Rate Plans

Plan A: Pay $ 2.75 per person to visit the museum.

Plan B: Monthly membership is $7.50 for each person, but you can go as many times as you like during the month.

Plan C: A family membership for a month is $15.25. Everyone in your family can go as often as they like for a month.

If you and your brother want to go to the museum eight times during the three months of summer, which one plan should you use and when should you go to save the most money?

What if you can't go as you originally planned, what other plans might you use? State when you would attend and the best plan(s) to use. Explain your thinking.