

Puzzles

Rosemont math students do these puzzles as a fun break from more involved equations. Try your hand at them. The answers are at the bottom of the page.

Water lilies

Water lilies double in area every 24 hours. There is one water lily in the middle of a lake. If it takes 40 days for the lake to be completely covered in water lilies, on which day is it half covered?

A square lot of land measures 100 feet on each side.

- a. If a fence is to be built on only the rear side of the lot and posts are placed 10 feet apart, how many posts are required?
- b. How many posts at intervals of 10 feet are required to fence all four sides of the lot?
- c. If the front and rear of the lot are already fenced, how many more posts are needed to fence the lot completely?

Answers

Water lilies

The lake is half covered on the 39th day.

A square lot of land

- a. 11 posts
- b. 40 posts
- c. 18 posts