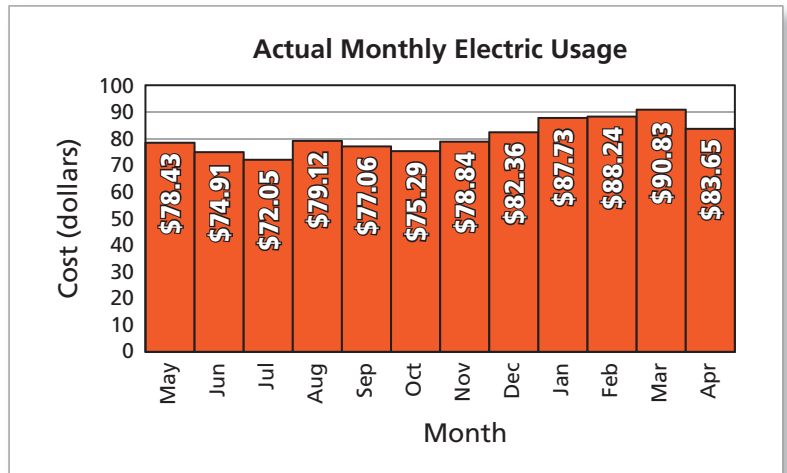


▶ Extending Concepts



19. Equal-Payment Plan From May through March, on an equal-payment plan, you pay \$90 each month on your electric bill.

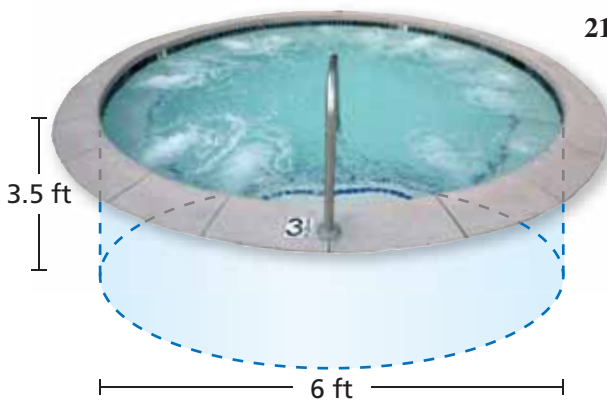
- How much do you owe in April?
- Interpret your answer to part (a).
- What should you pay each month to have 12 equal monthly payments?



20. Ink Cartridge A combo pack has 2^3 ink cartridges. A shipment has 6^2 combo packs. Which of the following keystroke sequences is better for finding the total number of ink cartridges in a shipment? Explain your reasoning.

a. $2 \wedge 3 (6 \wedge 2) =$

b. $(2 \wedge 3) (6 \wedge 2) =$



21. Hot Tub The inside of a circular hot tub is lined with 1-inch by 1-inch tiles.

- Explain how to estimate the number of tiles needed for the hot tub.
- The hot tub is 3.5 feet deep and has a diameter of 6 feet. What is the minimum number of tiles needed? (The formula for the circumference of a circle is $C = \pi d$.)

Job Offers In Exercises 22–24, use the job offers shown.

Offer A

Salary Rate:	\$3200 per month
401(k):	3% matching
Health Insurance:	\$850 per month
Sales Commission:	\$0–2500 per month

Offer B

Salary Rate:	\$25 per hour
401(k):	5% matching
Health Insurance:	\$650 per month
Profit Sharing:	\$0–15,000 per year

- What are the minimum and maximum yearly total compensations for each job offer?
- Which job offer do you think is better? Explain your reasoning.
- You decide to make a counteroffer to the company you did not choose in Exercise 23. How does your counteroffer differ from the original? Explain your reasoning.