Practice Video Tools Games

Another Look!

Simon has 28 baseball cards and 16 soccer cards. Each month he plans to get 6 more baseball cards and 4 more soccer cards. Will he ever have the same number of baseball cards and soccer cards? Explain.

For each type of card, write a rule and make a table. On the same grid, graph the ordered pairs in each table.

> To make sense and persevere, graph ordered pairs then analyze the graph.

Baseball Cards: Start at 28 and add 6.

Months	Start	1	2	3	4	5	6
Baseball Cards	28	34	40	46	52	58	64

Soccer Cards: Start at 16 and add 4.

Months	Start	1	2	3	4	5	6
Soccer Cards	16	20	24	28	32	36	40

He will never have the same number of baseball cards and soccer cards. The lines are getting farther apart, so the number of soccer cards will never catch up.
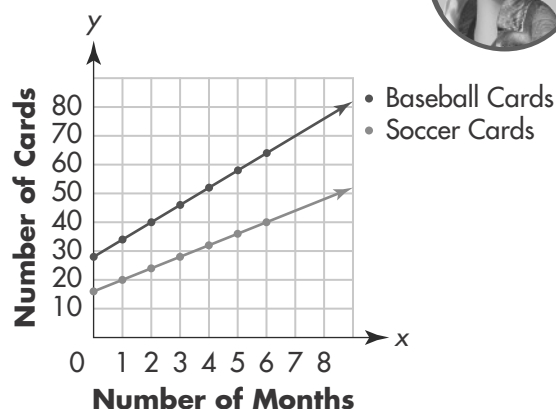
Make Sense and Persevere

The stingray tank contains 6 inches of water. The shark tank is empty. Each hour, 4 inches of water are added to the stingray tank and 6 inches are added to the shark tank. Will the water in the shark tank ever be as deep as the water in the stingray tank? Explain.
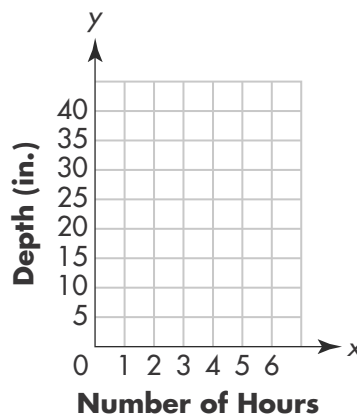
Hours	Start						
Depth (in.)	6						

Hours	Start						
Depth (in.)	0						

1. Write a rule and complete each table.

Rule: _____

Rule: _____

2. Graph the ordered pairs in each table.

3. Explain whether the depth of water in the two tanks will ever be equal.

Fall Festival
The park district wants to hire a deejay for the Fall Festival. They expect the festival to last no more than 6 hours. Which deejay would be less expensive?

DJ Sammy

$90 plus $30 per hour

DJ Zoe

$20 plus $40 per hour

4. Make Sense and Persevere How can you use tables and a graph to solve the problem?

5. Use Appropriate Tools For each deejay, write a rule and complete the table.

Rule: _____

Hours	Start						
Cost ($)	90						

Rule: _____

Hours	Start						
Cost ($)	20						

When you make sense and persevere, you use a strategy that makes sense for the problem.

6. Use Appropriate Tools On the grid, graph the ordered pairs in each table.
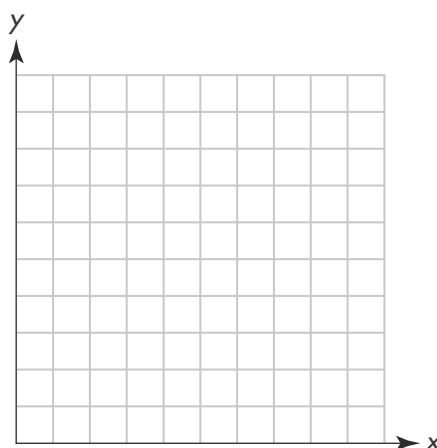
7. Be Precise Which deejay would be less expensive?