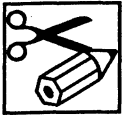


Phone Patterns

Leader



Reinforce the patterns strategy.



You will need:

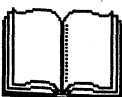
Pencil



Do this:

- The child should be taught to use the table as an organizer to apply the patterns strategy.
- The Talk-A-Lot Phone Company offers multiple phone lines to its customers. It charges \$5 a month per phone. After much research into costs, it discovered that it costs \$2 a month to service one phone on a line, \$4 a month for two phones, \$7 a month for three phones, and so forth. If this pattern continues, how many phones can be put on a line before the company would lose money?

Phones	1	2	3	4	5	6	7	8	9	10
Income	5	10	15	20	25	30	35	40	45	50
Cost	2	4	7	11	16	22	29	37	46	56
Net Profit	3	6	8	9	9	8	6	3	-1	-6



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Student _____



Do this:

- Solve the following phone problem for the Talk-A-Lot Phone Company:

The Talk-A-Lot Phone Company offers multiple phone lines to its customers. It charges \$5 a month per phone. After much research on costs, it discovered that it costs \$2 a month to service one phone on a line, \$4 a month for two phones, \$7 a month for three phones, and so forth. If this pattern continues, how many phones can be put on a line before the company would lose money?

Phone	1	2	3	4	5	6	7	8	9	10
Income										
Cost										
Net Profit										



How many phones on a line gives the company the greatest profit?



WHAT I FOUND