Practice

Lesson 1

1. Complete an addition table like this using patterns. Describe the patterns you used.

建	2	4	6	8	10
10	1,2	14	_	18	20
111	13		17	19	
12		16	18		22
13			19		

row (across)column(down)diagonal-

Lesson 2

2. Olivia made this pattern using toothpicks.



shape 1 shape 2 shape 3 shape 4 shape 5 shape 6 shape 7

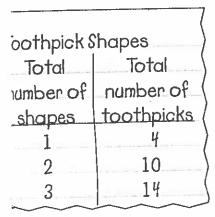
- a) How many toothpicks will she need for 10 shapes? Use a table.
- b) Describe the pattern in the second column.

Lesson 3

3. Sean used a table to record how many people could sit at all the picnic tables in the park.

Picnic Tables	
Number of picnic tables	Total number of people
1	8
2	16
3	24
4	32

- a) Model the pattern.
- b) If the pattern continues, how many people can sit at 7 picnic tables?



AUGUST						
Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat
		1	2	3	4	. 5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Lesson 4

4. In August, Nicky did a crossword puzzle every 5 days. She did a word search puzzle every 3 days. How many times in August did she do both types of puzzles on the same day?

Lesson 5

5. What is the missing number in each equation?

a)
$$1 + 9 = 22$$

c)
$$45 + 60 = 60$$

b)
$$27 = 3 - 5$$

d)
$$32 - 3 = 25$$

6. At the start of a game, Kelly gave each player the same amount of play money. The total number of dollars Kelly gave the players made this pattern:

a) Write an equation with a missing number to represent how the pattern changes.

b) How much play money did each player get at the start of the game?

Lesson 6

7. Manuel is saving for a pair of running shoes that cost \$89. He still needs \$42. How much has he saved already? Use an equation to solve the problem.

Lesson 7

8. Jade's goal is to save 500 pennies. She already has 256. How many more pennies does Jade need to meet her goal? Use an equation to solve the problem.

What Do You Think Now?

Look back at What Do You Think? on page 3. How have your answers and explanations changed?

Practice - Ch. 1 Patterns - 5TUDY GUIDE

1. Complete an addition table like this using patterns. Describe the patterns you used.

1941 in 1941	2	4	6	8.	10
10	12	14	16	18	20
1	13	15	17	19	21
12	14	16	18	20	22
13	15	17	19	2	23

Lesson 1

across- 2 not	3 0	ach -	tine	
down-stortati	30	add	Leach	TIME
diagonal- stat	40	20	3 us tr	nd

Lesson 2

Toothpick S	hapes
Total	Total
10 miles	number of
1-	toothpicks
i	4+6
2	10 + 4
3	14 + 6
1 4-	20 +4
1	24+6
1 6	30 44
7	34 +6
8	40+4
q	144+6

2. Olivia made this pattern using toothpicks.

4+0	4 + 6	+4	+6	+4
			1	
			IVI	
				/1

shape 1 shape 2 shape 3 shape 4 shape 5 shape 6 shape 7

- a) How many toothpicks will she need for 10 shapes? Use a table. 50
- b) Describe the pattern in the second column.

Start at H add 6 then add 4 each time

Lesson 3

3. Sean used a table to record how many people could sit at all the picnic tables in the park.

Number of picnic tables	Total number of people
2	16
3	24
	32 +8
5	40 +8
6	48 +8.
5	5.6

a) If the pattern continues, how many people can sit at 7 picnic tables?

Lesson 4



4. In August, Nicky did a crossword puzzle every 5 days. She did a word search puzzle every 3 days. How many times in August did she do both types on the same day? The twice

- 5º7	29 30 31	of puzzles
XC	Puzzle Nordse	every 5 day arch every 30

on 15 and 30

Lesson 5 5. What is the missing number in each equation?

c) 45 + 3 = 60 5

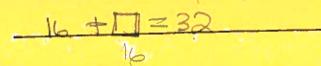
 \Rightarrow a) 4 + 9 = 227 b) 27 = 7 - 5

d) 32 - = 25

6. At the start of a game, Kelly gave each player the same amount of play money. The total number of dollars Kelly gave the players made this pattern:

16, 32, 48, 64,

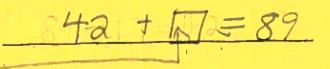
a) Write an equation with a missing number to represent how the pattern changes.



b) How much play money did each player get at the start of the game?

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