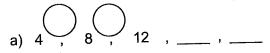
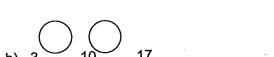
1. Extend the following patterns, using the "gap" provided:

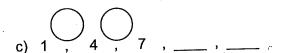
Example 1:
6 , 7, 8 , 9

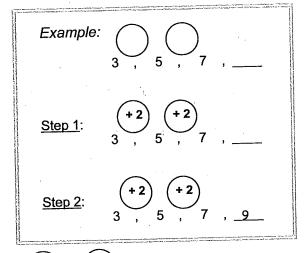
Example 2: 8 , 6 , 4 , 2

- a) 5 (+ 6) 11 , ____ , ___ , ___
- b) 1 , 5, ____, ___, ___
- c) 3 , 7, ____, ___
- d) 6 , 9, ____, ____, ____
- e) 36, 31, ____, ___
- f) 10 , 17 , ____ , ____ , ___
- g) 17 , 13 , ____ , ____ , ___
- h) 19 , 15 , ____ , ___ , ___
- 2. Extend the following patterns by first finding the "gap".

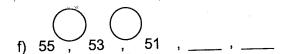






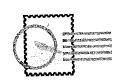


- d) 21 , 25 , 29 , ____ , ___
- e) 11 , 16 , 21 , ____ , ___



g) 79 , 73 , 67 , ____ , ___

Jameson has a roll of 52 stamps.
 He uses 4 each day for 6 days.
 How many are left?



4. Amy has saved \$36. She saves \$6 each day after that.

How much money has she saved after 5 days? ______

1	Continue	tha	following	sequences	hν	adding	tho	number	divon:
	Continue	uic	TOHOWING	Sequences	υy	auuiiig	uic	HAILING	UIVEII.

a)	(add 3)	41	, 4	4	·,		
----	---------	----	-----	---	----	--	--

2. Continue the following sequences, subtracting by the number given:

a)	(subtract 2)	24 .	22		
~,	(000000000)	,		,,,	

BONUS

3.	Create a pattern of your own.	Say what number you added or subtracted each time

		N/	ly rule:	
 , ,	,	, IV		

- 4. Which one of the following sequences was made by adding 4? Circle it. HINT: Check all the numbers in the sequence.
 - a) 4, 8, 10, 14
- b) 4, 8, 12, 16
- c) 3, 9, 11, 15

5. **72, 63, 54, 45, 36 ...**

Yen says this sequence was made by subtracting 8 each time. Hyun says it was made by subtracting 9. Who is right?



1.	What number was added ea	ch time to mak	e the pattern?	
•	a) 2, 6, 10, 14	add	b) 2, 5, 8, 11	add
	c) 18, 24, 30, 36	add	d) 40, 47, 54, 61	add
	e) 81, 86, 91, 96	add	f) 69, 72, 75, 78	add
2.	What number was subtracted	d each time to	make each pattern?	
	a) 38, 36, 34, 32		b) 65, 60, 55, 50	subtract
	c) 200, 199, 198, 197	subtract	d) 91, 88, 85, 82	subtract
	e) 67, 64, 61, 58	subtract	f) 399, 397, 395, 393	subtract
3.	State the rule for the following	g patterns:		
	a) 219, 212, 205, 198, 191	subtract	b) 11, 19, 27, 35, 43, 51	add
	c) 301, 305, 309, 313	-	d) 210, 198, 186, 174	
	e) 633, 622, 611, 600, 589		f) 821, 830, 839, 848, 8	57
	g) 407, 415, 423, 431		h) 731, 725, 719, 713	
4.	Find the rule for the pattern.	Then continue	the pattern:	
	a) 22, 27, 32, <u>37</u> , <u>42</u>	, <u>47</u>	The rule is:Start at 22 and	add 5 each time
	b) 38, 45, 52,,	.,	The rule is:	
	c) 124, 136, 148,,		The rule is:	
5.		5 , 9 ,	13, 17, 21	
	Jonah says the pattern rule is Pria says the rule is: "Start at Genevieve says the rule is: "S	5 and add 5 e	ach time."	
	a) Whose rule is correct?			
	b) What mistakes did the o	thers make?		
	·			,

Claude makes a growing pattern with squares.

He records the number of squares in each figure in a chart or T-table.

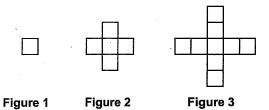


Figure	# of Squares	
1	1	4
2	5	Number of square added each time.
3	9	

The number of squares in the figures are 1, 5, 9, ... Claude writes a rule for this number pattern:

c)

f)

RULE: Start at 1 and add 4 each time.

Claude makes other growing patterns with squares.
 How many squares does he add to make each new figure?
 Write your answer in the circles provided. Then write a rule for the pattern:

a)	Figure	Number of Squares	
	1	2	
	2	. 7	X
	3	12	1

)	Figure	Number of Squares	
	1	2	
	2	9	
	3	16	

Figure	Number of Squares	
1	1	
2	4	
3	7	N.

Rule: Start at 2 and add 5 each time

<i>y</i> ,	
	7 .

Rule:	abadi dhidan yajirma khowa kara nyasor wantu sadash	n talah salam pelak kelalah dalah dalah sal	Kânas kepîr n mespeş

d)	Figure	Number of Squares	any management described in the control of the cont
	1	1	
	2	7	\searrow
	3	13	<u> </u>

e)	Figure	Number of Squares	
	1	5	
	2	12	
	3	19	
	Security married is interested to be a secure of the security	Andrewan Transcript Commerce and the second State of the second St	

Figure	Number of Squares	Charles and the contract of th
1	13	-
2	21	\
3	29	1

No. of Street, Street,	Rule:	
THE REPORT OF THE PERSON NAMED IN	i	
Per property of the second		
of the State of the		

Rule:			
Rule.			
		,	
		3	

g) Number of **Figure Squares** 3 1 2 11

3 19

Figure	Number of Squares	
1	7	_
2	11	>
. 3	15	

Figure	Number of Squares	· model care and colored color
1	8	/
2	14	>=
3	20	

Rule:

ANA-CIUM OF BEHAVIOR SERVICES	 	- Coll complete Committee	- to become a compression, o	· · · · · · · · · · · · · · · · · · ·	
Rule:				•	
					ì

2. Extend the number pattern. How many squares would be used in Figure 6?

b)

h)

a)	Figure	Number of Squares
	1	2
	2	9
	3	16
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Figure	Number of Squares
1	2
2	6
3	10
, demonstration of Collections and Security Security of Burney (Security Security Se	gas, verbest sinds victoriassementations mayor to the filter to be not filter over the filter of the filter of

Figure	Number of Squares
1	6
2	11
3	16
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	generaligie (de parte l'imme : no signi framemente de la lateration de manuel de la parte de l'imme de l'i
al view in the contraction of th	autorinanteng da menhilipanya eriki sahi da (ana Padi menahili) dalih biri

c)

c)

3. Trina makes the following growing patterns with squares. After making Figure 3, she only has 16 squares left. Does she have enough squares to complete Figure 4?

a)	Figure	Number of Squares
	1	4
ľ	2	9
	3	14
Ì	-4,78	

))	Figure	Number of Squares
·	1	5
	2	9
	3	13
	y grand the property of the second voltage and second second	The second contract of

1	
1	3
2	7
3	11

YES NO YES

NO

YES

NO



4. Make a chart to show how many shapes will be needed to make the fifth figure in each pattern.

a)











