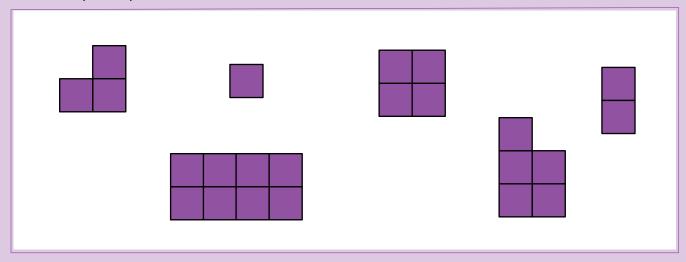


SAMPLE PAGES

YEAR 3

Investigating Odd and Even Number Patterns

Loop the pictures that show odd numbers.



What do you notice about each odd number?

2. **a.** Colour the even numbers.

Г	ı	2	3	4	5	6	7	8	9	10
	ı									
	Ш	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40
	41	42	43	երեր	45	46	47	48	49	50
	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70
	7 I	72	73	74	75	76	77	78	79	80
	81	82	83	84	85	86	87	88	89	90
	91	92	93	94	95	96	97	98	99	100

How do you know that each number is even?

Exploring Patterns of Three

a. Start at 3. Count in steps of 3. Colour the numbers you say.

ı	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	32	33	34	35	36	37	38	39	40
41	42	43	ԼֈԼֈ	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

b. Describe the pattern that you see.

-		

c. Add the digits of any two-digit number that you shaded. Write the total in the first box below then complete the sentence.

 shared by 3 is	

d. Compare your sentence with a classmate. Can each shaded number be evenly shared?

Investigating Addition Number Patterns

Colour each **starting number** purple. Colour each **total** red. Write the answers.

a.

ı	2	3	Ц	5	6	7	8	9	10
П	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	ЦЦ	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

What patterns can you see?

a.

b.

C.

Extending Addition Number Patterns

Roll two labelled cubes. Choose one number to write in any number sentence in any set to make a true sentence.

SET A

SET B

SET C

- **2. a.** In Set A, how did the ones digits in the answers change?
 - **b.** In Set B, how did the tens digits in the answers change?
- **3.** Write the missing numbers in each set.

a.

b.

C.

Investigating Subtraction Number Patterns

Work in a group with two labelled cubes. Roll the cubes and choose one number to write in any number sentence in any set to make a true sentence.

a. 22 - ____ = 19 22 - ____ = 18 22 - ____ = 17 22 - ____ = 16 22 - ____ = 15 22 - = 14

b. 81 - ____ = 21 71 - ____ = 21 61 - ____ = 21 51 - ____ = 21 41 - ____ = 21 31 - ____ = 21

•	66 – = 6	
	55 – 50 =	
	L-L = L-	
	33 – 30 =	
	22 – = 2	
	11 - 10 =	

2. For each set above, which numbers changed in each sentence?

a. b. C.

Write the missing numbers in each set.

a. 65 - ____ = 48 65 - ____ = 49 65 - _____ = 50 65 - _____ = 51 65 - _____ = 52

b. -27 = 75-26 = 75-25 = 75-24 = 75-23 = 75

- 35 105 = _____ 104 = **-** 35 - 35 103 = $102 = _{-}$ - 35101 = - 35