

MATHEMATICS

STANDARD TWO

TERM I

TEXTBOOK TEAM

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1. PATTERNS IN SHAPES

Shall we admire the beautiful designs in the wings of the butterfly, petals of sunflower and plumage of peacock?

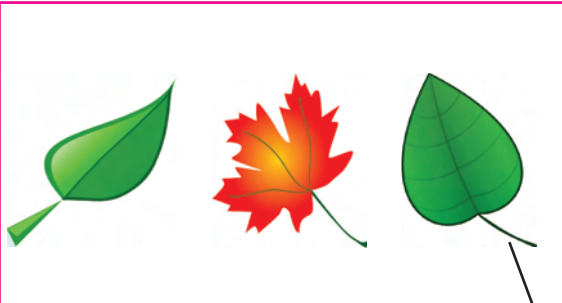








Some more designs are given below



Patterns are arrangements of similar designs in a particular order.

Match the group with its kind.

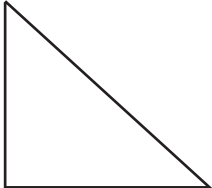
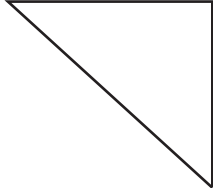
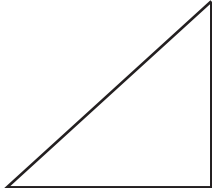
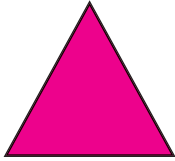
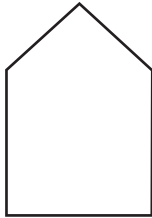
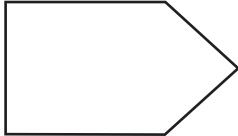
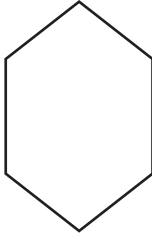
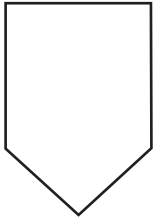
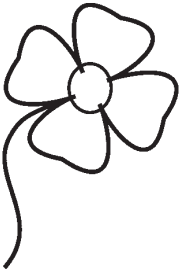
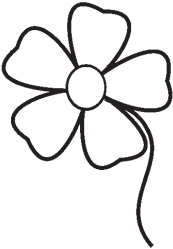


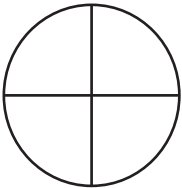
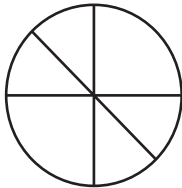
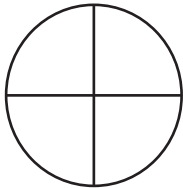
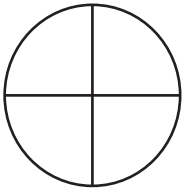
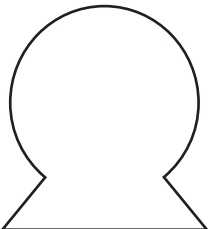
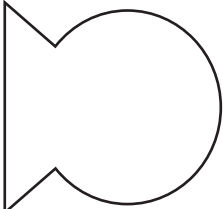
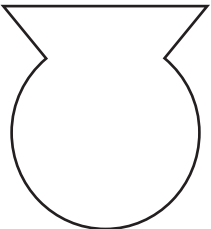
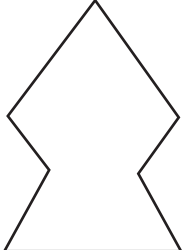
	
	
	
	
	

Match the animal with its shadow by drawing a line.


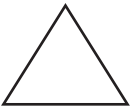


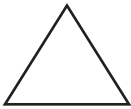

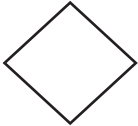
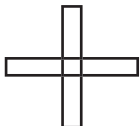
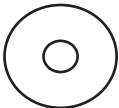
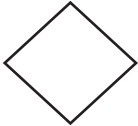
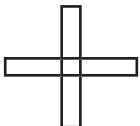
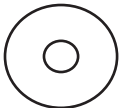








MATHEMATICS



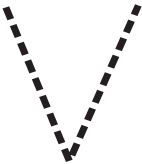

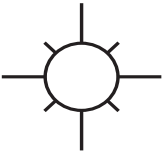



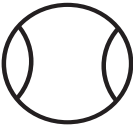
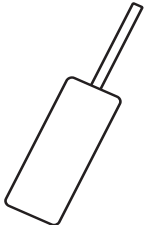
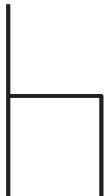

Find the odd one and colour it.





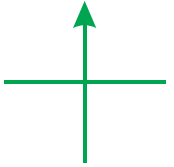
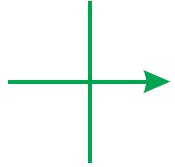
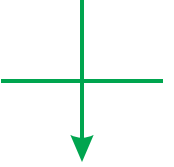
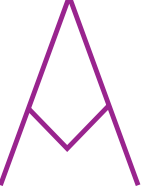
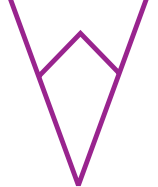
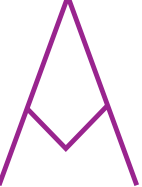
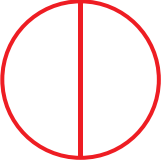
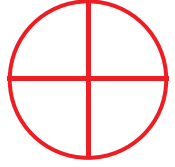
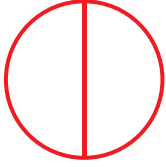
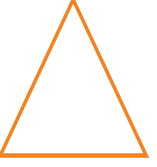

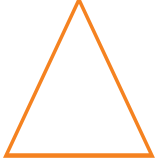
Draw the given patterns and enjoy doing it.

					
C	S	U	C	S	U
3	5	8	3	5	8
					
					








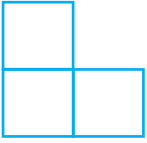
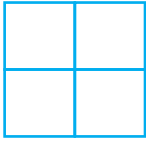



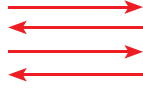






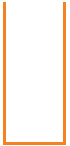
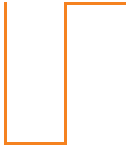

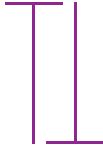

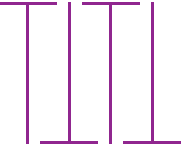
Repeat the patterns as given.

Continue the pattern by drawing the next one.

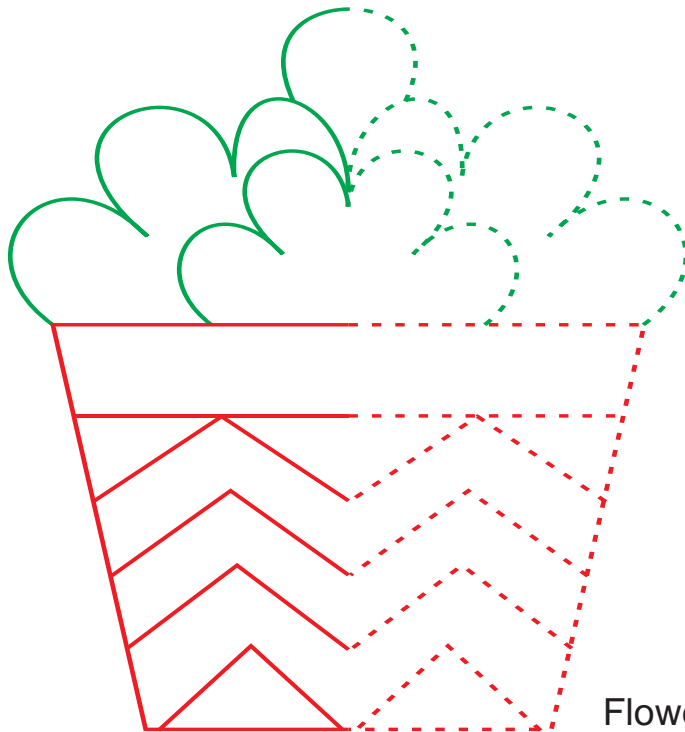
Draw the next pattern.

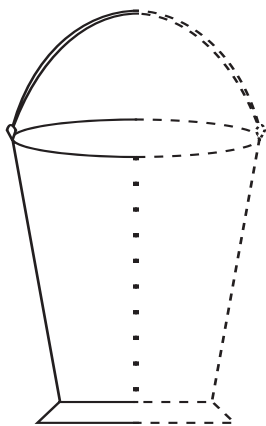


ACTIVITY

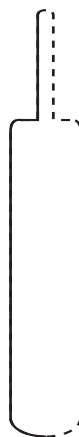
Complete the other half of the pattern.



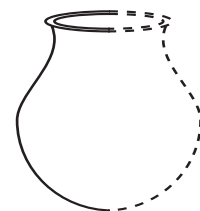
Flower Pot



Bucket



Bat



Pot

2. NUMBERS

Revision

- ★ Write the following in numerals.

Seven

7

Thirteen

Nine

Fifteen

Eleven

Nineteen

- ★ Write the following in words.

8 Eight

14 _____

10 _____

16 _____

12 _____

18 _____

- ★ Circle the greatest number in the following.

7 6 8

6 13 10

2 9 6

18 7 13

11 9 12

16 19 14

- ★ Circle the smallest number in the following.

4 3 2

13 11 9

7 6 8

15 13 17

10 12 14

16 18 19

★ What comes after ?

7	<input checked="" type="radio"/>	8
2	<input type="radio"/>	
9	<input type="radio"/>	
15	<input type="radio"/>	
19	<input type="radio"/>	

★ What comes before ?

<input checked="" type="radio"/>	2
<input type="radio"/>	6
<input type="radio"/>	8
<input type="radio"/>	13
<input type="radio"/>	17

★ What comes between ?

5	<input checked="" type="radio"/>	6	7
2	<input type="radio"/>		4
6	<input type="radio"/>		8

8	<input type="radio"/>		10
13	<input type="radio"/>		15
16	<input type="radio"/>		18

★ What comes before, after and between ?









4	<input checked="" type="radio"/>	5	6	<input checked="" type="radio"/>	7	<input checked="" type="radio"/>	8
2	<input type="radio"/>			<input type="radio"/>	5		<input type="radio"/>
<input type="radio"/>		10		<input type="radio"/>		<input type="radio"/>	13
11	<input type="radio"/>		13		14		<input type="radio"/>
<input type="radio"/>	<input type="radio"/>		18		<input type="radio"/>		20

Number names.

Let us learn to read and write the number names.

Pictorial form	Numerals	Number names
	21	Twenty one
	22	Twenty two
	23	Twenty three
	24	Twenty four
	25	Twenty five
	26	Twenty six
	27	Twenty seven
	28	Twenty eight
	29	Twenty nine
	30	Thirty

Learn to read and write the number names in tens.

Pictorial form	Numerals	Number names
	10	Ten
	20	Twenty
	30	Thirty
	40	Forty
	50	Fifty
	60	Sixty
	70	Seventy
	80	Eighty
	90	Ninety
	100	Hundred

Teacher's Note



Give Practice to the students to write number names from 1 to 100.



Count and write.

Pictorial form	Numerals	Number names
	32	Thirty two
	46	
		Fifty five
	63	
	78	
		Eighty five
		Ninety seven
	100	

Match the following.

Numerals

Number names

37

Forty two

66

Eighty one

42

Fifty

50

Thirty seven

81

Sixty six

Write the numerals for the following.

Fifteen

Sixty

Nineteen

Seventy seven

Twenty five

Eighty nine

Forty eight

Ninety five

Fifty three

Hundred

Write the number names for the following.

16 _____

69 _____

27 _____

76 _____

35 _____

80 _____

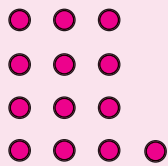
59 _____

93 _____

61 _____

99 _____

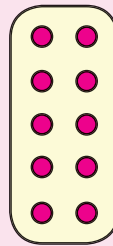
Grouping into tens and ones.



13 ones

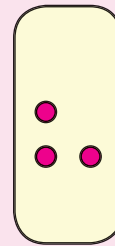


give



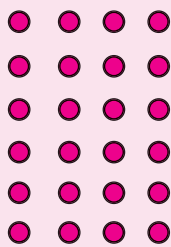
1 ten

+



3 ones

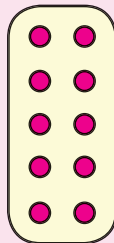
10 ones are equal to 1 ten



24 ones

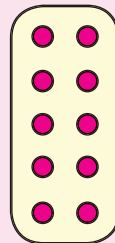


give



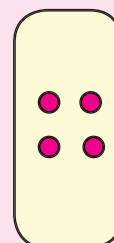
1 ten

+



1 ten

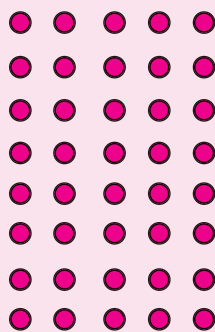
+



4 ones



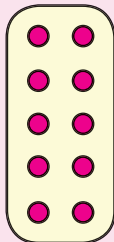
2 tens and 4 ones



40 ones

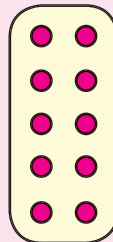


give



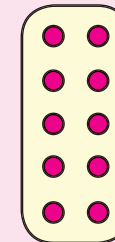
1 ten

+



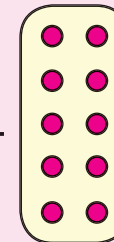
1 ten

+



1 ten

+



1 ten

+

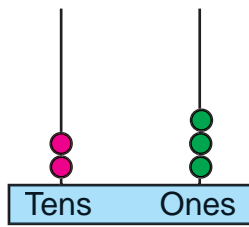


0 ones

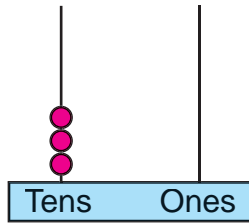


4 tens and 0 ones

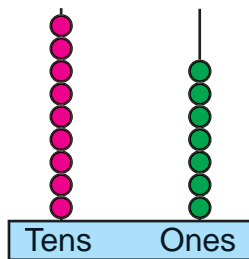
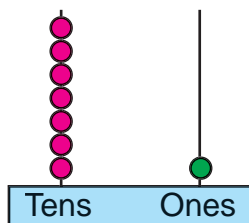
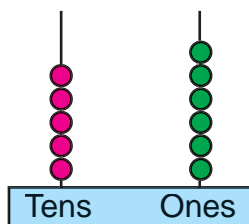
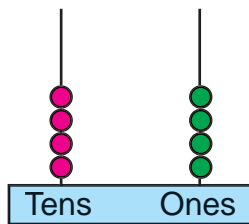
Write the number in the box, using the abacus.



23



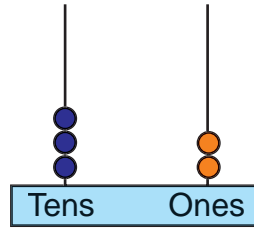
30



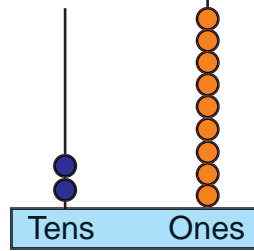
MATHEMATICS

Read the numbers and draw the beads in the abacus.

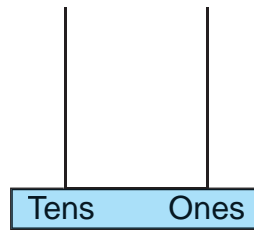
32



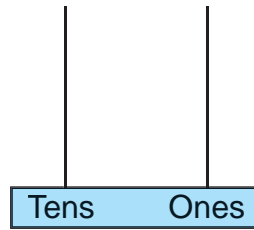
29



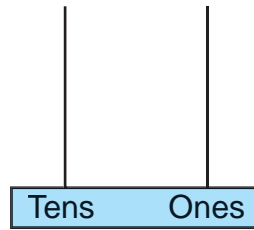
66



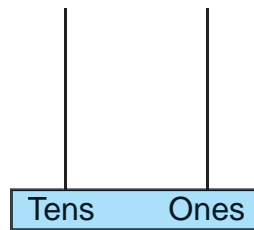
78



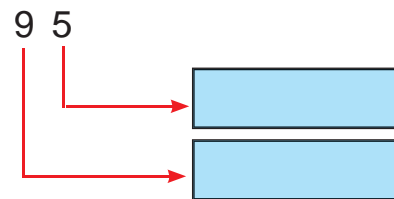
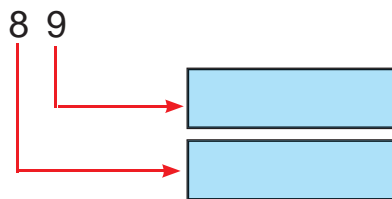
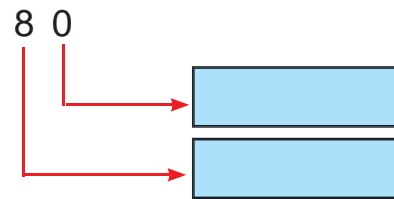
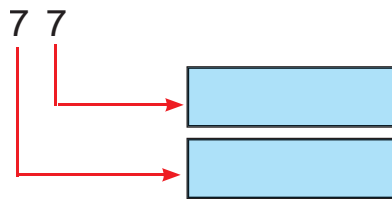
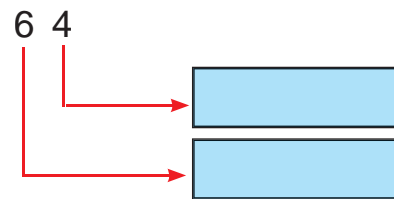
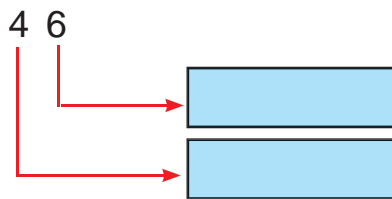
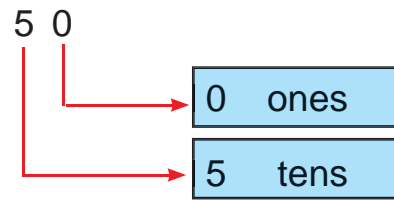
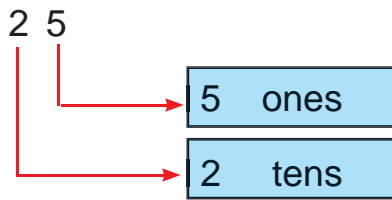
80



95



Write the place value of the digits in the following numbers.



Write in the short form.

3 tens and 2 ones =

4 tens and 5 ones =

7 tens and 0 ones =

8 tens and 8 ones =

9 tens and 7 ones =



Write in the expanded form.

28 = 2 tens and 8 ones

41 = _____ tens and _____ ones

72 = _____ tens and _____ ones

83 = _____ tens and _____ ones

90 = _____ tens and _____ ones

Write the place value of the underlined numbers.

19 9 ones

12

29 2 tens

64

38

71

47

85

53

99



Project

Prepare the number cards from 0 to 9.

Take any two cards and make a 2 - digit number. Say the place value of the digits.

★ Repeat the activity using other cards.



3. COMPARISON OF NUMBERS

Let us learn to compare the 2-digit numbers using place value.



We can compare the numbers as

> greater than

< Less than

= equal to

Compare the numbers 63 and 45.

tens	ones
6	3

tens	ones
4	5

Comparing the tens place

$$6 > 4$$

63 is greater than 45

$$63 > 45$$

The greater number in the tens place is the greater of them.



Compare the numbers 39 and 54.

tens	ones
3	9

tens	ones
5	4

$$3 < 5$$

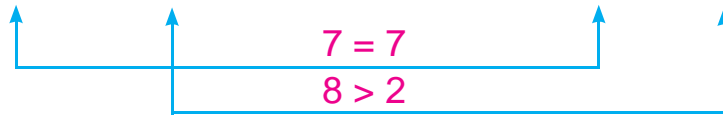
39 is less than 54

$$39 < 54$$

Now compare the numbers 78 and 72.

tens	ones
7	8

tens	ones
7	2



If the numbers in tens place are same,
then compare the numbers in ones place.



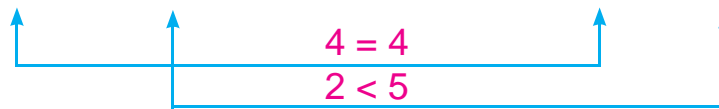
78 is greater than 72

$$78 > 72$$

Compare the numbers 42 and 45.

tens	ones
4	2

tens	ones
4	5



42 is less than 45

$$42 < 45$$

Compare the numbers 86 and 86.

86 is equal to 86.

$$86 = 86.$$

If the numbers in
tens and ones places
are the same then
they are equal.



Observe the following.

$$38 > 25$$

$$26 = 26$$


$$55 < 66$$

$$93 = 93$$

$$86 > 74$$

$$33 < 38$$

Compare the numbers and use $>$ or $<$ or $=$

73	<input type="text"/>	85		93	<input type="text"/>	39
29	<input type="text"/>	29		25	<input type="text"/>	52
36	<input type="text"/>	25		77	<input type="text"/>	77
40	<input type="text"/>	40		80	<input type="text"/>	72
71	<input type="text"/>	79		36	<input type="text"/>	63



ACTIVITY

Play and Learn

Prepare the number cards from 1 to 100 as

.....

and the symbol cards

The class is divided into two groups.

Group 1 picks a pair of number cards.

Group 2 places the symbol card between the numbers.

★ Repeat the activity using other cards.



Ascending Order



We shall arrange the numbers **7, 5** and **8** from the smallest to greatest as **5, 7, 8**. Shall we arrange the numbers **46, 32** and **58** from the smallest to the greatest ?

tens	ones
4	6

4

tens	ones
3	2

3

tens	ones
5	8

5

Oh! I remember. First compare the digits in the tens place, then in the ones place.



Comparing tens place, we find that

the smallest number is **32** and the greatest number is **58**.

The ascending order is **32, 46, 58**.

Ascending order is arranging the numbers from the smallest to the greatest.

Now, we arrange the numbers **76, 52** and **62** in ascending order.

We get **52, 62, 76**.

Descending Order

Descending order is arranging the numbers from the greatest to the smallest.



Let us arrange the numbers **46**, **32** and **58** in descending order.

We get **58**, **46**, **32**.

Arrange the following numbers in ascending order.

$$56, 37, 25 = \underline{\quad}, \underline{\quad}, \underline{\quad}$$

$$93, 84, 81 = \underline{\quad}, \underline{\quad}, \underline{\quad}$$

$$27, 43, 38 = \underline{\quad}, \underline{\quad}, \underline{\quad}$$

$$75, 72, 74 = \underline{\quad}, \underline{\quad}, \underline{\quad}$$

$$54, 63, 45 = \underline{\quad}, \underline{\quad}, \underline{\quad}$$

Arrange the following numbers in descending order.

$$27, 35, 53 = \underline{\quad}, \underline{\quad}, \underline{\quad}$$

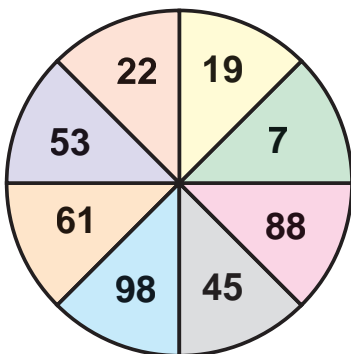
$$72, 86, 85 = \underline{\quad}, \underline{\quad}, \underline{\quad}$$

$$26, 62, 22 = \underline{\quad}, \underline{\quad}, \underline{\quad}$$

$$38, 86, 31 = \underline{\quad}, \underline{\quad}, \underline{\quad}$$

$$46, 94, 64 = \underline{\quad}, \underline{\quad}, \underline{\quad}$$

Select any three numbers from the picture.
 Arrange them into ascending and descending order.
 Do as many sums as possible.



Numbers : _____, _____, _____,

Ascending order : _____, _____, _____,

Descending order : _____, _____, _____,



ACTIVITY

Prepare the number cards from 1 to 100.



Divide the class into two groups.

Group 1 should take any three cards.


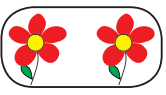





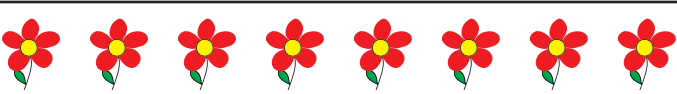


Group 2 should arrange them in the ascending order.

★ Repeat the activity by changing the group.

★ Repeat the activity in descending order.

Odd and Even Numbers

Circle the flowers in pairs.

	1
	2
	3
	4
	5
	6
	7
	8
	9
	10

What do you observe?

From the above table, we see the numbers **2, 4, 6, 8,** and **10** are exactly paired.

The other numbers **1, 3, 5, 7** and **9** are not exactly paired.



The numbers ending with 1, 3, 5, 7 and 9 are odd numbers.



The numbers ending with 0, 2, 4, 6 and 8 are even numbers.

Which of the following are odd and even numbers.

13 Odd number

22 Even number

14 _____

15 _____

23 _____

26 _____

37 _____

40 _____

56 _____

68 _____

69 _____

72 _____

85 _____

90 _____

99 _____

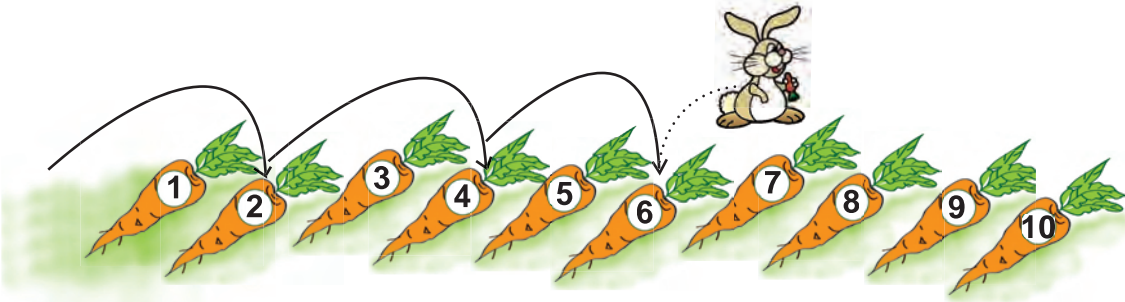
100 _____

See the Fun!

- * The number of letters in the word 'even' is even.
- * The number of letters in the word 'odd' is odd.

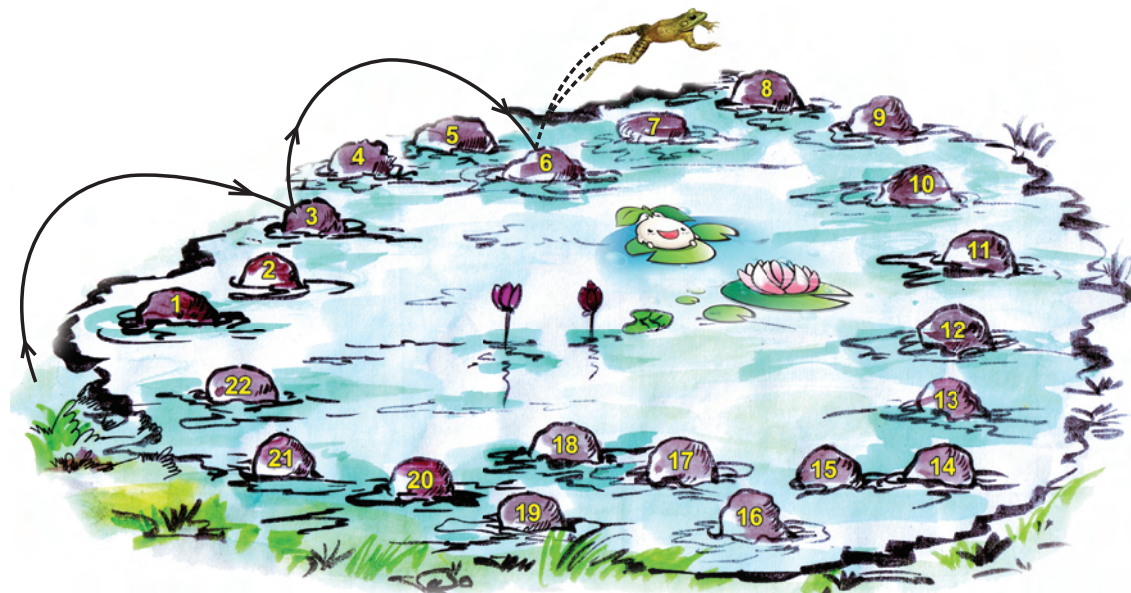
Skip counting numbers.

Tinku, an active rabbit, jumps over a carrot and reaches the next one. Where will Tinku go next?



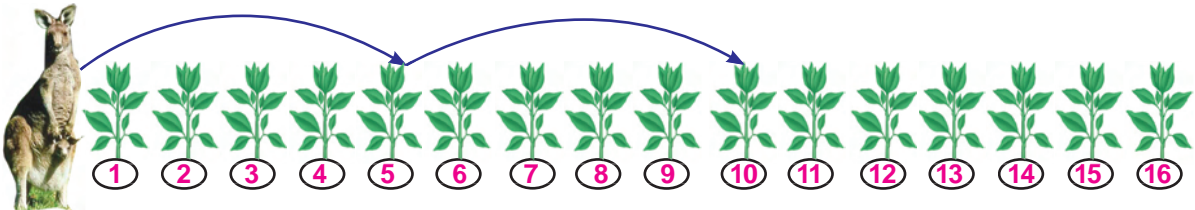
Tick (✓) the numbers in the carrot that the rabbit skipped over.

Look at the pond where Mr. Froggi jumps and gets on a stone. Where will he go next?



Circle the numbers that he skipped over.

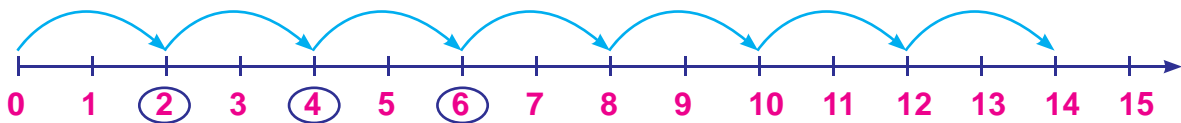
Boogie, a kangaroo hops and stops at a plant in a particular order to have her meal. Where will she go next?



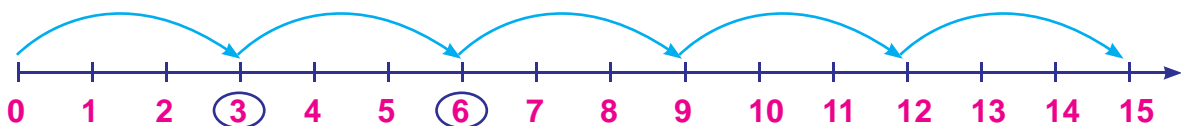
Tick (✓) the numbers that she skipped over.

Let us learn skip counting on the Number Line

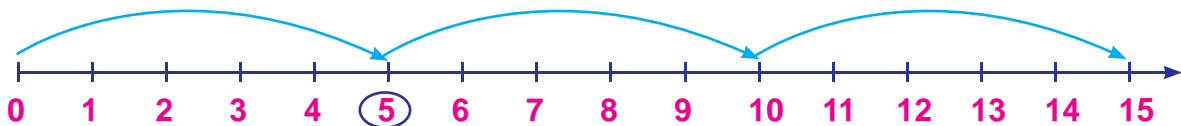
Skip count in **2**'s and circle the numbers.



Skip count in **3**'s and circle the numbers.



Skip count in **5**'s and circle the numbers.



Count in 2's and circle the number.

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	32	33	34	35	36	37	38	39	40
41	42	43	44	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

Using the above chart,

- ★ Count in 3's and list it. **3, 6, 9,** _____
- ★ Count in 5's list it. **5, 10, 15,** _____
- ★ Count in 2's and list it. **11, 13, 15,** _____

Read and write what comes next ?

8, 10, 12, _____, _____, _____

21, 23, 25, _____, _____, _____

32, 34, 36, _____, _____, _____

47, 49, 51, _____, _____, _____

68, 70, 72, _____, _____, _____

Fill in the blanks

4, 7, 10, _____, _____, _____

24, 27, 30, _____, _____, _____

55, 58, 61, _____, _____, _____

66, 69, 72, _____, _____, _____

82, 85, 88, _____, _____, _____

What comes next ?

5, 10, 15, _____, _____, _____

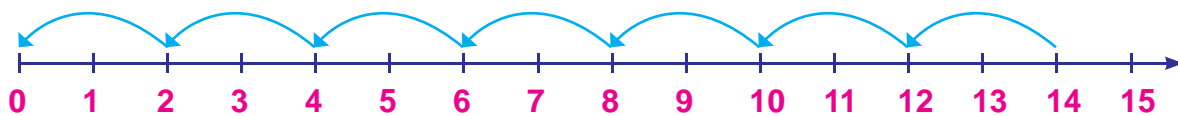
30, 35, 40 _____, _____, _____

55, 60, 65 _____, _____, _____

75, 80, 85, _____, _____, _____

20, 25, 30, _____, _____, _____

Counting backwards



Counting backwards in 2's → 14, 12, 10, 8, 6, 4, 2, 0.

Counting backwards in 3's → 15, 12, 9, 6, 3, 0.

Counting backwards in 5's → 15, 10, 5, 0.

Read and write by counting backwards.

14, 12, 10, _____, _____, _____

60, 58, 56, _____, _____, _____

82, 80, 78, _____, _____, _____

18, 15, 12, _____, _____, _____

45, 42, 39, _____, _____, _____

90, 87, 84, _____, _____, _____

35, 30, 25, _____, _____, _____

55, 50, 45, _____, _____, _____

Do it yourself



Starting from **50**, count backwards in **2's**, **3's**, and **5's**.

