

# OGUN DIGICLASS

**CLASS: PRIMARY SCHOOL**

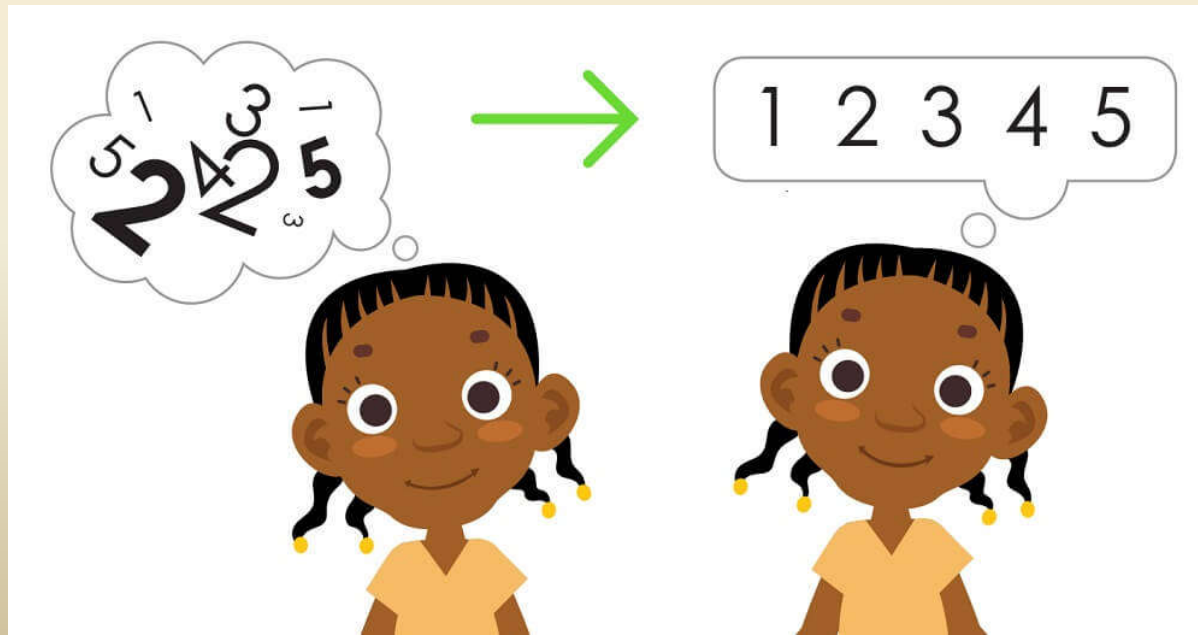
**SUBJECT: MATHEMATICS**

**TOPIC: NUMBER SEQUENCE**

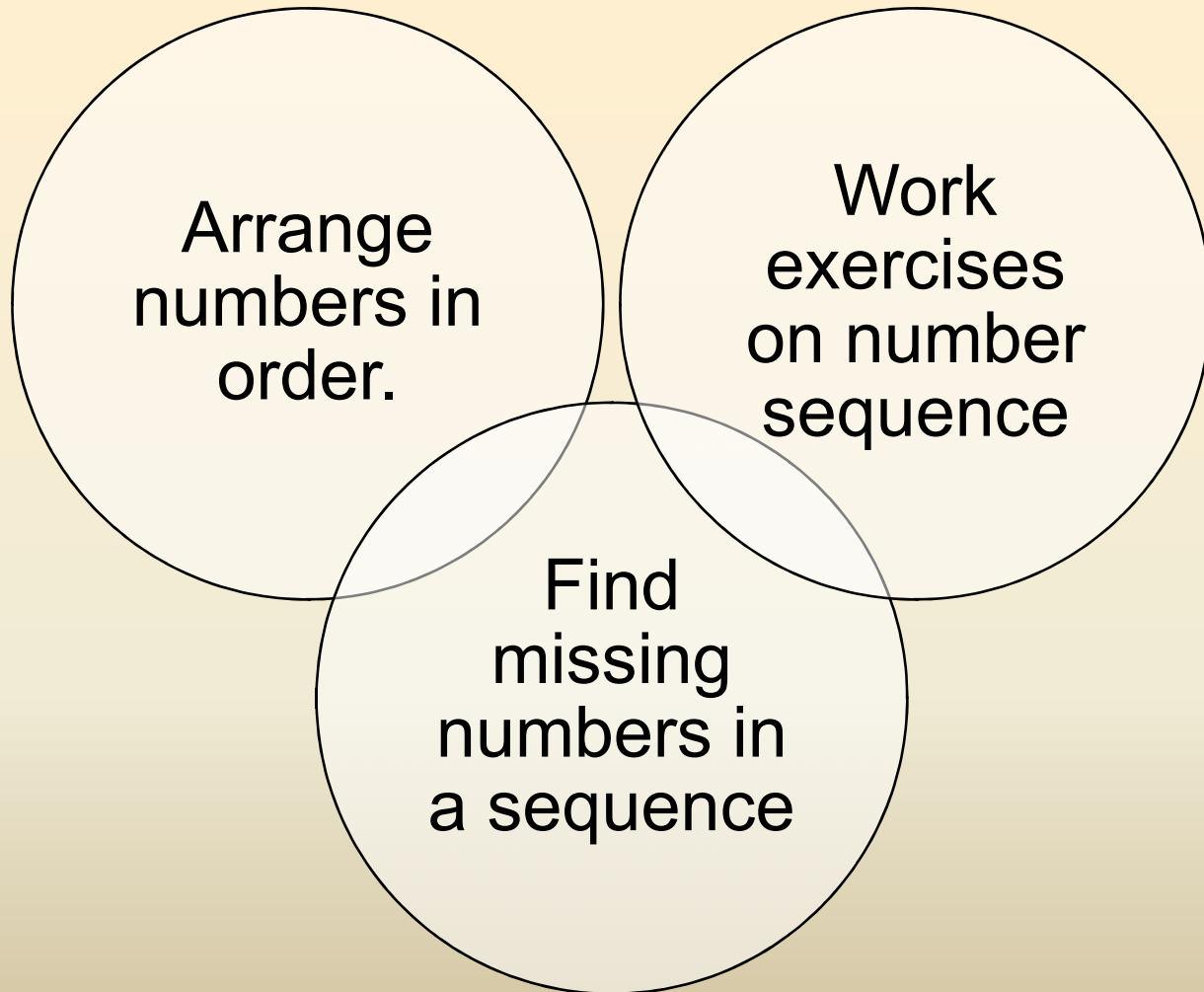


# Rationale

- Helps learners' understand and organize materials.
- Helps them to solve problems
- Develops learners' thinking skills.



# Learning Objectives



# Sequences!

A number sequence is a list of numbers that are in order

We all know this sequence of numbers! What is the rule?

1      2      3      4      5      6      7      8      9

Of course its add one!

In today's lesson we are going to be looking at lots of different sequences!

# Example

1, 4, 7, 10, 13, 16, 19, 22, 25, ...

This sequence has a difference of 3 between each number

## Number Sequences

Numbers are written and counted in sequence.

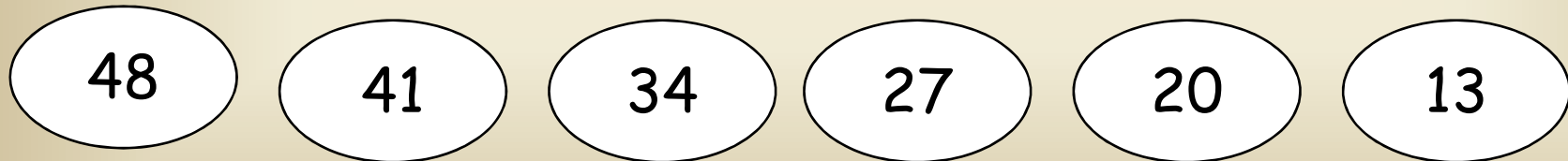
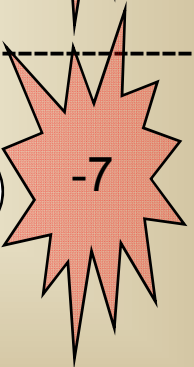
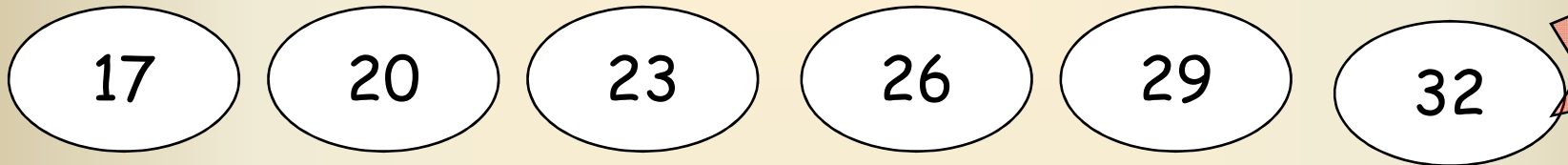
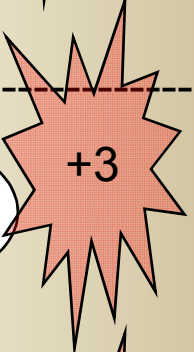
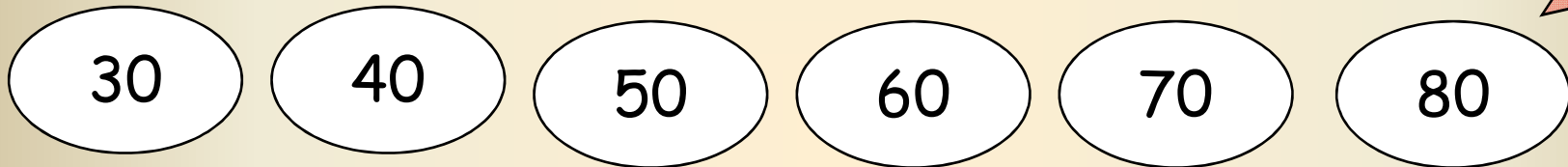
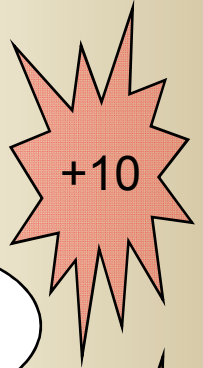
The sequence can:

- be infinite (go on forever) 997, 998, 999, 1000, ...
- go forwards 501, 502, 503, 504, ...
- go backwards 400, 399, 398, 397, ...
- start at any number 877, 878, 879, 880, ...
- be a skip or alternate pattern 105, 110, 115, 120, 125, ...



Look at these number sequences carefully can  
you guess the next 2 numbers?

What about guess the rule?



Can you work out the missing numbers in each of these sequences?

50

75

100

150

175

+25

30

70

90

110

130

+20

196

191

186

176

171

-5

306

296

286

266

256

-10

Can you work out the missing numbers in each of these sequences?

50

75

100

125

150

175

+25

30

50

70

90

110

130

+20

196

191

186

181

176

171

-5

306

296

286

276

266

256

-10



Now try these sequences - think carefully and guess the next number!

1

2

4

7

11

+1, +2,  
+3 ...

3

6

12

24

48

double

0.5

2

3.5

5

6.5

+ 1.5

7

4

1

-2

-5

-3

Now try these sequences - think carefully and guess the next number!

1

2

4

7

11

16

+1, +2,  
+3 ...

3

6

12

24

48

96

double

0.5

2

3.5

5

6.5

8

+ 1.5

7

4

1

-2

-5

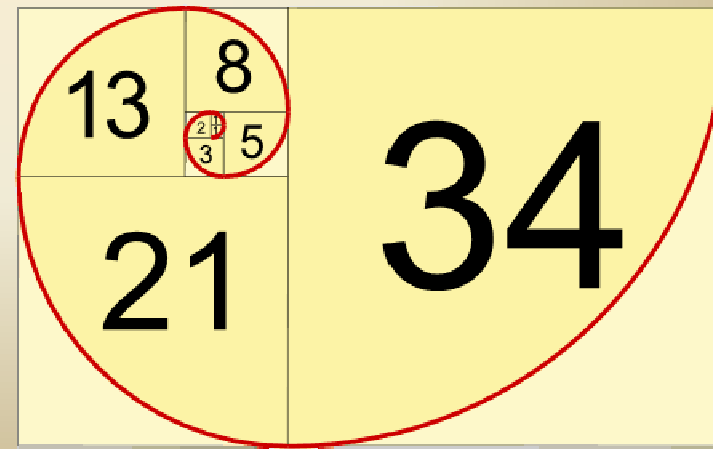
-8

-3

1      1      2      3      5      8      13      21      ?

This is a really famous number sequence which was discovered by an Italian mathematician a long time ago.

It is called the **Fibonacci sequence** and can be seen in many natural things like pine cones and sunflowers!!!



# Guess my rule!

3

7

15

31

63

127

2

3

5

9

17

33

# Guess my rule!

3

7

15

31

63

127

$\times 2 + 1$

$\times 2 - 1$

2

3

5

9

17

33

# Further Practice

- Write the next three numbers

13    26    52    104    208    -----    -----    -----

101    201    301    401    -----    -----    -----

130    110    90    70    50    -----    -----    -----

96    84    72    60    48    -----    -----    -----

100    125    150    175    200    -----    -----    -----