ITL PUBLIC SCHOOL

MATHEMATICS

PATTERNS AROUND US

A. MCQ (Choose the correct option)

1.Observe the pattern:
5, 8, 11, 14, 17, _
What number comes next?
i) 19
ii) 20
iii) 21
iv) 22

2. Which number completes the pattern?
2, 4, 8, 16, _
i) 20
ii) 24
iii) 30
iv) 32

3. Riya makes a pattern using letters:
A, C, E, G, _
Which letter should come next?
i) H
ii) I
iii) J
iv) K

4. Look at the pattern:
20, 18, 16, 14, _, 10
Which number is missing?
i) 11
ii) 12
iii) 13
iv) 15

5. A pattern is made as follows:
● ▲ ▲ ● ▲ ▲ ● ▲ ▲ …
Which shape will be at the 10th position?
i) ●
ii) ▲
iii) ■

iv) ★

6. The first row has 3 stars, the second has 6 stars, the third has 9 stars, and the pattern continues. How many stars will the 7th row have?
i) 18
ii) 21
iii) 24
iv) 27

B. LET US COUNT

1. Gundappa has 8 coconut trees. He plucks 5 coconuts from each tree. How many coconuts does he pluck? _____

2. There are 4 trays. Each tray has 12 coconut laddoos. How many laddoos are there altogether? _____

3. There are 3 trays. Each tray has 13 milk pedas. How many milk pedas are there altogether?
_____

4. Muni arranges objects in equal groups to make counting easier. Write one way in which grouping can help you count 24 objects. _____

C. PATTERNS WITH MONEY

1. Find the total: 4 × ₹10 + 3 × ₹5 + 2 × ₹2 = ₹_____

2. Find the total: 5 × ₹10 + 4 × ₹5 + 3 × ₹1 = ₹_____

3. Make ₹48 using only ₹10, ₹5, ₹2 and ₹1 play money. Write one way:
_____

4. Make ₹75 using only ₹10, ₹5, ₹2 and ₹1 play money. Write one way:
_____

5. Write another way to make ₹36 using ₹10, ₹5, ₹2 and ₹1 play money:
_____

D. TWO WAYS — EVEN AND ODD

1. Complete the pattern: 2, 4, 6, ____, ____, 12, ____.

2. Complete the pattern: 1, 3, 5, ____, ____, 11, ____.

3. Shiv's numbers can be arranged in pairs. Circle the even numbers: 7, 12, 15, 18, 21, 24.

4. Shirley's numbers cannot be completely paired. Circle the odd numbers: 8, 11, 14, 17, 20, 23.

5. Write the even numbers between 1 and 10:
_____

6. Write the odd numbers between 1 and 10:
_____

7. Are all numbers in the times-2 table even? _____ Give one example: _____

E. CRAYONS ARRANGEMENT

1. Circle the odd numbers and put a square around each even number.

17	**30**	**43**	**52**	**69**	**38**
25	**44**	**51**	**62**	**37**	**80**
46	**91**	**28**	**75**	**34**	**57**

1. Write the even numbers from the grid:

_____

2. Write the odd numbers from the grid:

_____

F. THINK AND ANSWER

1. Identify the following numbers as even or odd. Write them in the correct group:

30, 300, 78, 415, 46, 154, 67, 99

Odd: _____

Even: _____

2. Make two 2-digit numbers using the digits 2 and 7 without repetition. Write whether each is even or odd.

Numbers: _____ _____

3. Choose any two digits and make two 2-digit numbers in such a way that both numbers are even.

Numbers: _____ _____

G. CHALLENGE

A number is even when its objects can be completely paired. A number is odd when one object is left without a partner.

Find the missing numbers: 41, ____, 43, ____, 45, ____, 47, ____. What pattern do you notice? _____

Write one even number and one odd number greater than 50 but less than 100: Even _____ Odd _____