

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: $4 \times ₹10 + 3 \times ₹5 + 2 \times ₹2 = ₹$ _____
2. Find the total: $5 \times ₹10 + 4 \times ₹5 + 3 \times ₹1 = ₹$ _____
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 _____