



#### Introduction:

- 1. The thing or action being repeated in a series/list is called a pattern.
- 2. The piece that repeats over and over in a design is called a 'MOTIF'
- 3. The pattern that are made up of repeating shapes and cover an area completely without leaving any gaps or overlapping is called a tessellation
- 4. Anything that is repeated again and again is called to be in a Loop

### **Questions:**

answer:

Solve the following questions based on above mentioned points:

1. Match the following. Write down the matched pair in answer column and explain the reason why they matched in reason column.

Column A	Column B
1) 2,4,6,8	A) Frog, Goat, Horse
2) Cat, Dog, Elephant	B) Lioness, Peahen, Tigress
3) Lion, Peacock, Tiger	C) 10,12,14,16
4) 3,4,5	Triangle, Square, Pentagon

Answer	Reason

attern:		
b.	Series: 1,2,4,8,16,,	
Patte	ern:	
	Series: Five, Ten,, Twenty,, Thi	rty,,
Patte	ern:	
d.	<b>Series</b> : A,D,G,J,M,,	

Name: Class: Div: Roll. No:

3. Identify the odd man out in the below series and also give reason for choosing the



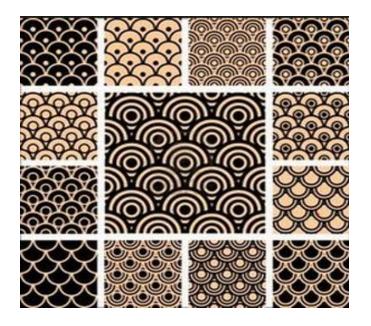


a.	Kitten,	Calf,	Pup,	Duck

Answer:
Reason:
b. Tomato, Strawberry, Raspberries, Peas, Orange
Answer:
Reason:
c. Triangle, Heptagon, Octagon, Pentagon
Answer:
Reason:
d. January, October, April, August
Answer:
Reason:

4. Encircle a Motif/s in below design:

a.



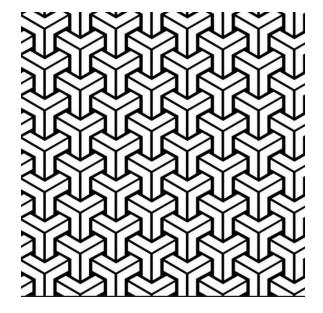
b.







c.



d.





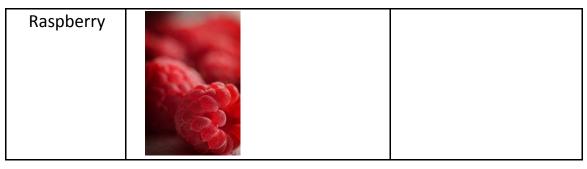


5. Answer whether the following things tessellate or not.

t	0
Bee Hive	
Pineapple	
Football	







- 6. Identify which of the following objects/situations are in loop and also explain why?
  - a. Hands of a clock
  - b. Rotating merry go round
  - c. A Coin
  - d. A fan which is switched on
  - e. A round trip train between Chennai-Mumbai-Chennai
  - f. A cello tape
  - g. Wheel of a moving car
  - h. The Earth
- 7. Draw a tessellation with a single shape.
- 8. Draw a tessellation which is made up of multiple shapes.
- 9. What is difference between a loop and a pattern?
- 10. Identify a pattern on a chess board? Is it a tessellation? Explain
- 11. Write down the following series:
  - i. A series of 5 numbers in which the difference between consecutive numbers is 2 and starts with number 10
  - ii. A series of 7 multiples of 10 which starts with number 50
  - iii. A series of odd months of the year
  - iv. A series first five composite numbers