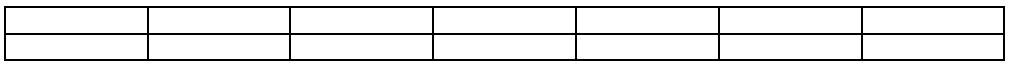
CHAPTER – 10

PLAY WITH PATTERNS

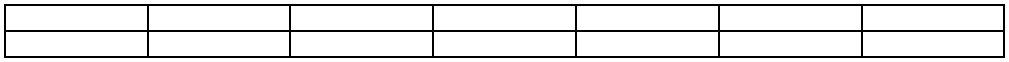
Page No 108:

Question 1: Can you see how Tinu has made different patterns using the same block? Now you too make 3 different patterns using 

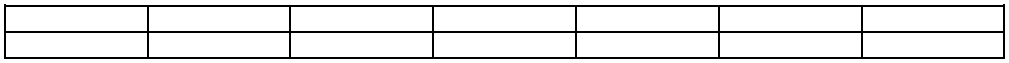
Pattern 1



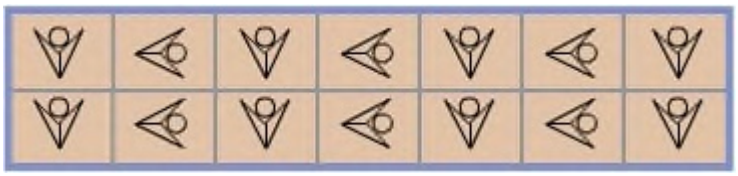
Pattern 2



Pattern 3



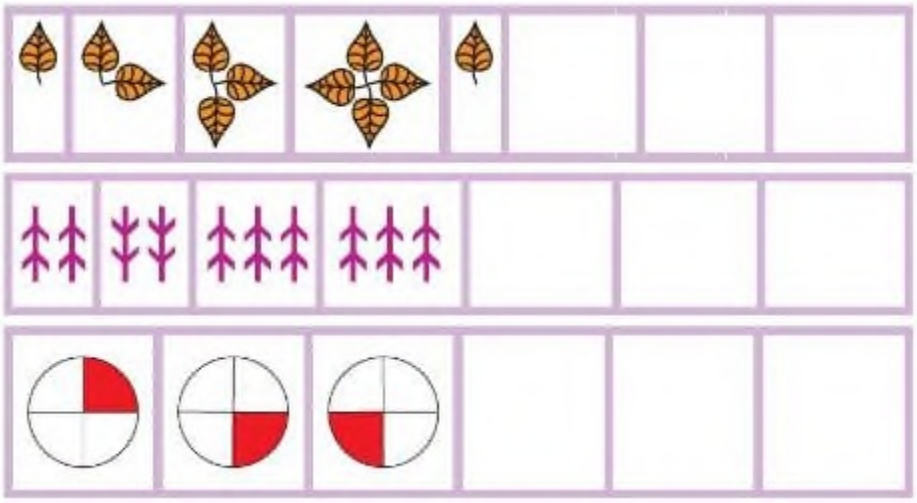
Answer:



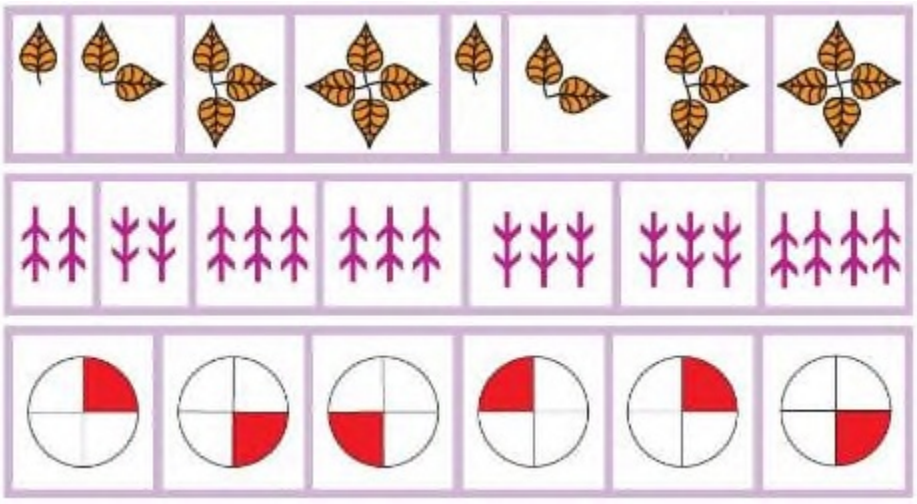
Disclaimer: *The answer may vary from student to student. The answer provided here is only for reference.*

Page No 109:

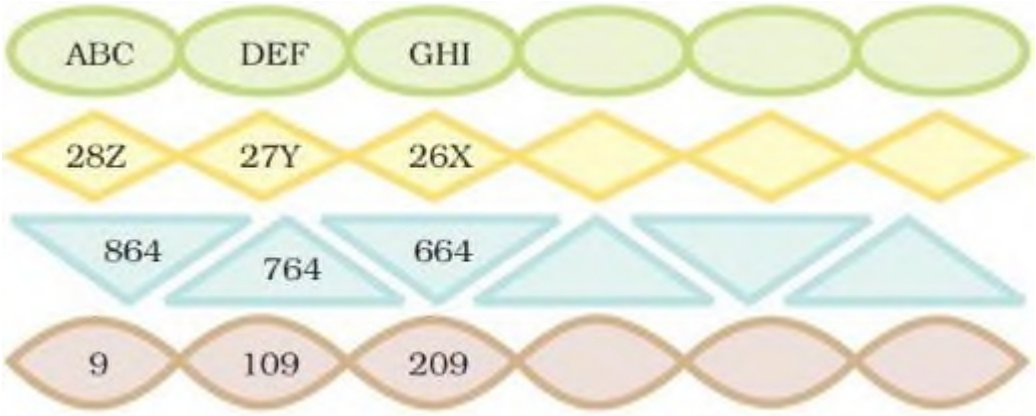
Question 1: Yamini has used her blocks to make a few patterns. Help her to take these patterns forward.



Answer:



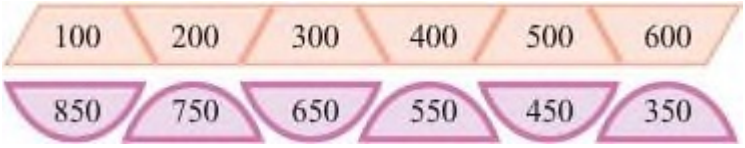
Question 2: We can also make patterns with numbers and letters. Below are a few examples. Can you take them forward?



Answer:

Question 3: Now write your own number patterns.

Answer:



Disclaimer: *The answer may vary from student to student, based on his/her experience. The answer provided here is only for reference.*

Page No 110:

Question 1: Make a pattern without numbers.

Answer:

AB	BC	CD	DE	EF	FG

Disclaimer: *The answer may vary from student to student, based on his/her experience. The answer provided here is only for reference.*

Question 2: Now you try writing the letters — A, B, C in the box so that no letter comes twice in any line.

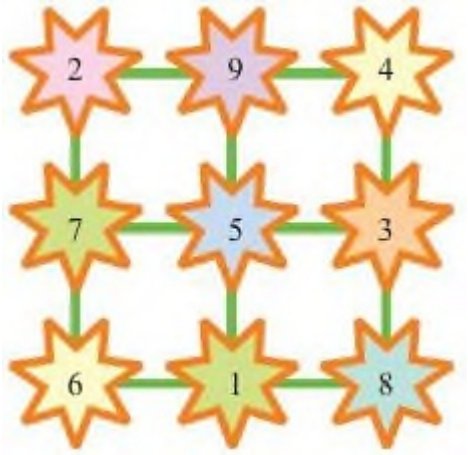
Answer:

A	B	C
C	A	B
B	C	A

Page No 111:

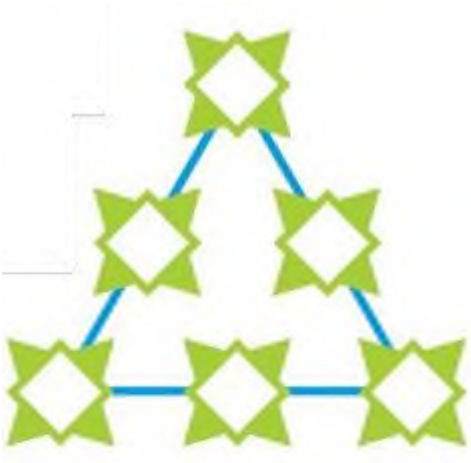
Question 1: Now you fill these stars. Use numbers 1 – 9 and the **rule** that the numbers on each line add up to 15.

Answer:

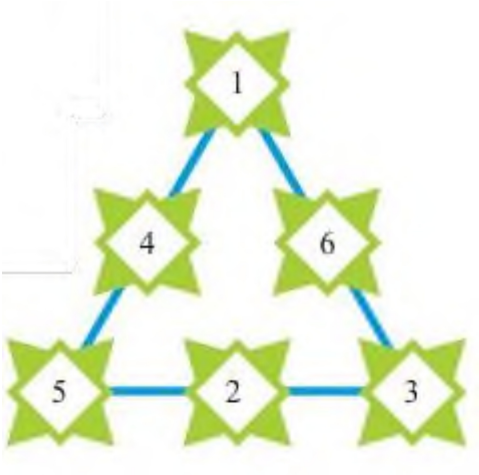


Page No 112:

Question 1: Now use numbers 1 – 6 to make your own magic triangle.
Rule: Numbers on each side must add up to 10.

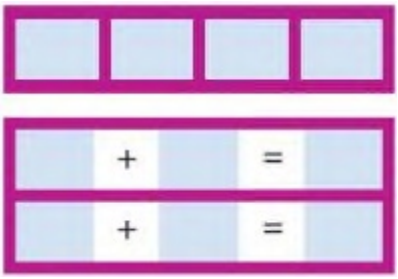


Answer:



Page No 113:

Question 2: Now you write any number and the three numbers after that. Make a pattern using the rule. See if you get the same sum.



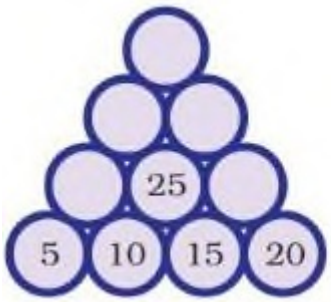
Answer:

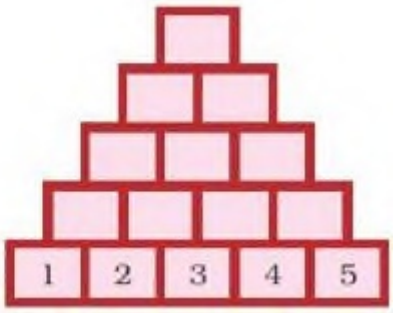
6	7	8	9

6	+	9	=	15
7	+	8	=	15

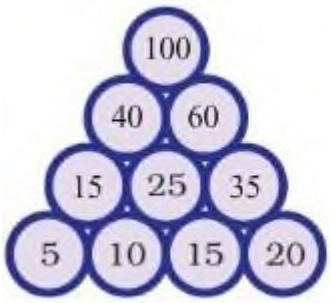
Disclaimer: *The answer may vary from student to student. The answer provided here is only for reference.*

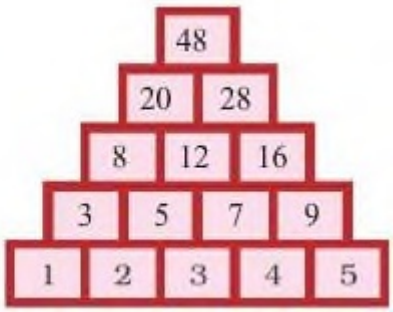
Question 1: Using the same rule, complete these number towers.





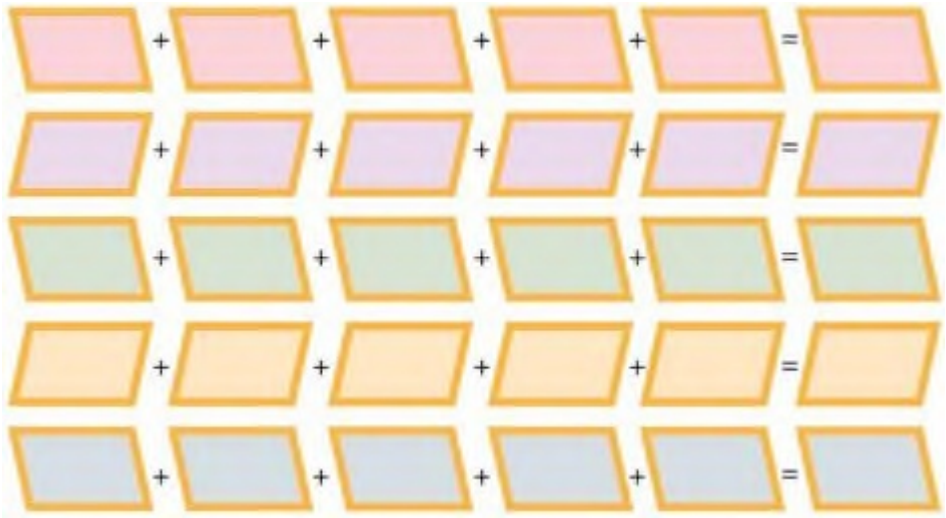
Answer:





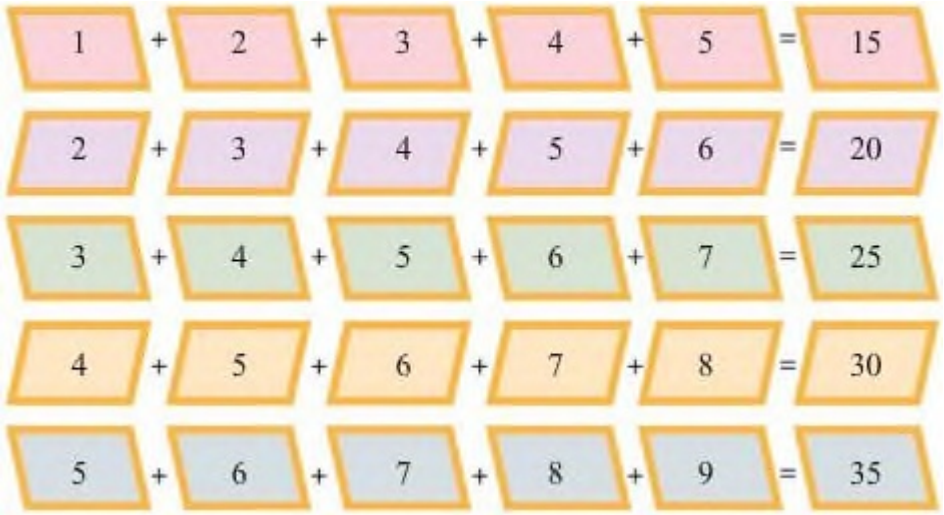
Page No 114:

Question 1: Now, you try to make such a pattern with 5 numbers in order.



Does the sum grow by 5 each time?

Answer:



Page No 115:

Question 1: Complete this list of letters and numbers to help you.

Answer:

Question 2: Teenu wants to write to his friend ‘Good Morning’. What will he write by using the same rule?

Answer:

G = 7; O = 15; O = 15; D = 4

M = 13; O = 15; R = 18, N = 14, I = 9, N = 14; G = 7

Thus, ‘Good Morning’ is written as

Question 3: If we change the rule and write 1 in place of ‘B’, 3 in place of ‘D’ and so on, then how will we write ‘Let Us Dance’?

Answer:

L = 11; E = 4;

T = 19

U = 20; S = 18

D = 3; A = 26; N = 13; C = 2; E = 4

Page No 116:

Question 1:

• What was Kahuli’s secret message? _____

• What did Shablu and Jaggu write?

_____

• Use the same rule to write — ‘Meet me on the moon’.

_____

• Make different rules and ask your friends to crack the secret message.

Answer:

- We are friends.
- Shablu wrote 2 messages, which are given below:

In her left hand, she held a paper in which following message was written. Hello! how are you? In her right hand, she held a paper in which following message was written. Will you play with me?

Jaggu also wrote 2 messages, which are given below:

In his left hand, he held a newspaper in which the following message was written. Fine, thank you. In his right hand, he held a newspaper in which the following message was written. Yes!

- **NFFU NF PO UIF NPPO.**

Disclaimer*: The answer may vary from student to student. It is highly recommended that students prepare the answer on their own. The answer provided here is for reference only.*

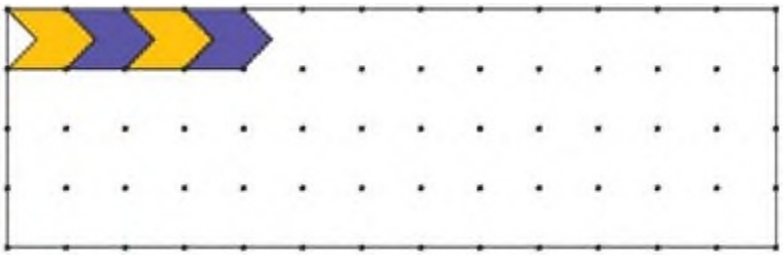
Page No 117:

Question 1: Now, Anisha is playing with this card. Draw what it will look like when upside down.

Answer:

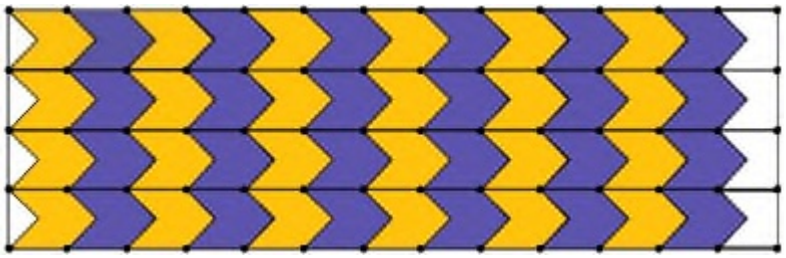
Page No 118:

Question 1: Now, you cover this floor with this tile.

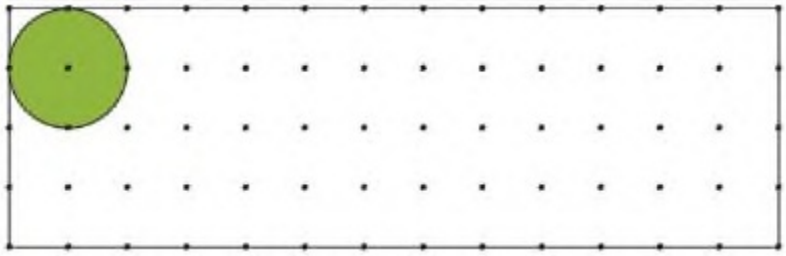


Can you make such a floor design with a tile like a circle?

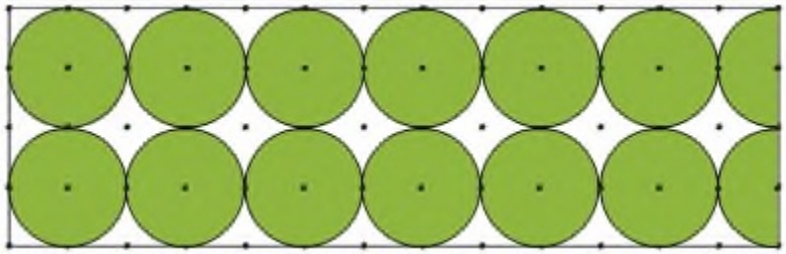
Answer:



Question 2: Try with this green tile without leaving a gap. Could you do it? Discuss with your friends.

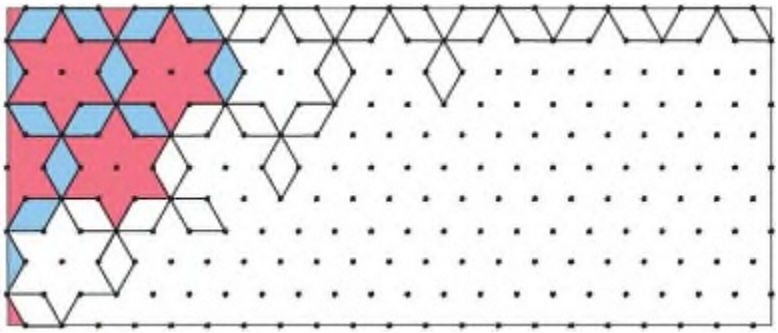


Answer:

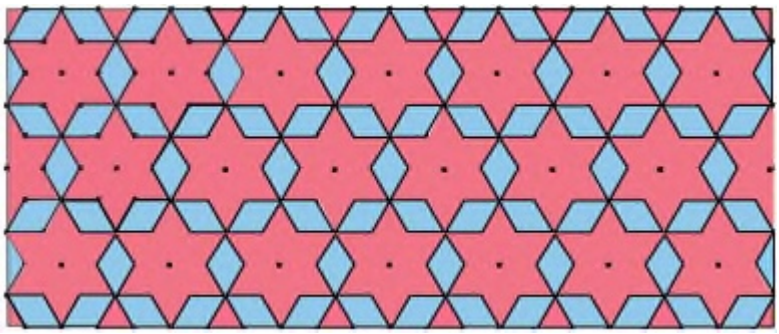


We cannot cover the floor with this green tile without leaving a gap.

Question 3: Complete this tiling pattern.

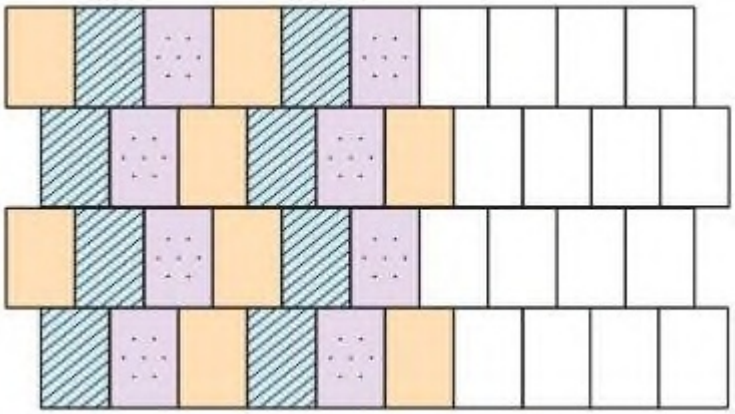


Answer:

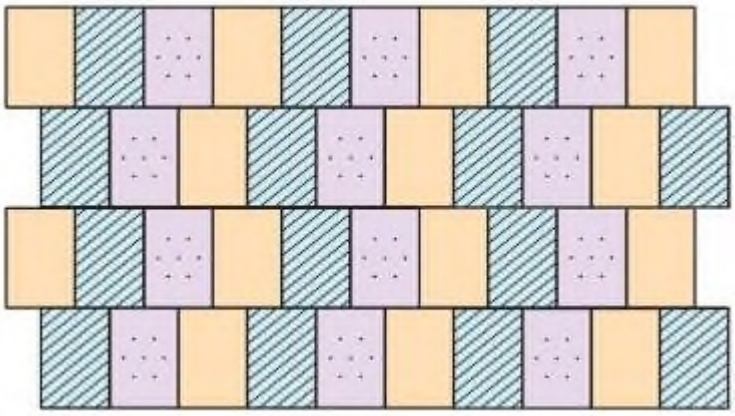


Page No 119:

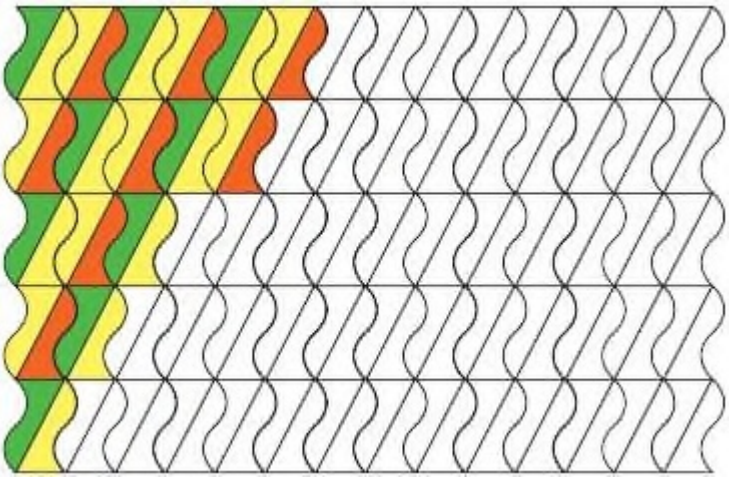
Question 1: Ramaiya has made a wall with his blocks. Can you complete this for him?



Answer:



Question 2: Renu began to paint this wall. Now you help her to complete it.



Answer: