

NCERT Solutions for 4th Class Maths Chapter 10-Play With Patterns



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Class 4: Maths Chapter 10 solutions. Complete Class 4 Maths Chapter 10 Notes.

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1. Can you see how Tinu has made different patterns using the same block? Now

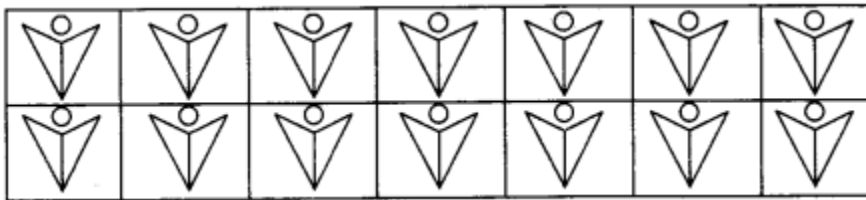
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you too make 3 different patterns using

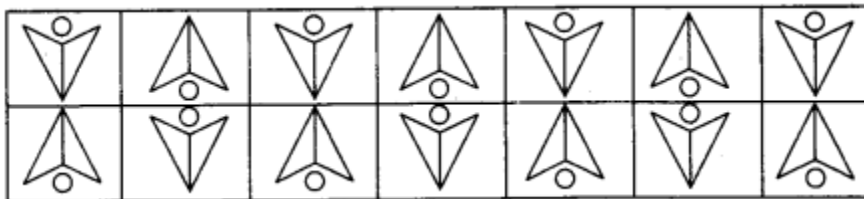


Ans.

Pattern-1



Pattern-2



Pattern-3

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ୱ	ୱ	ୱ	ୱ	ୱ	ୱ	ୱ
ୱ	ୱ	ୱ	ୱ	ୱ	ୱ	ୱ

ୱ	ୱ	ୱ	ୱ	ୱ	ୱ	ୱ
ୱ	ୱ	ୱ	ୱ	ୱ	ୱ	ୱ

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

Ans. Do yourself.

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

Ans. Do yourself. ‘

3. Now write your own number patterns.

Ans. Do yourself.

4. Make a pattern without numbers.

Ans. Pattern without numbers is as follows:

ABC	DEF	GHI	JKL	MNO	PQR
-----	-----	-----	-----	-----	-----

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No Number Comes Twice

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1. Now you try writing the letters-A, B, C in the box so that no letter comes twice in any line.

Ans. In the following pattern no letters repeat in a line.

A	B	C
C	A	B
B	C	A

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Magic Patterns

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

Ans. The number from 1 to 9 are filled in the stars. Which added upto 15 in each line.



Magic Triangles

Look at this number pattern.

Rule: Numbers on each side of the triangle add up to

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9. $3 + 4 + 2 = 9$

2. See if the other sides-of the triangle also add up to 9.

Ans. Yes, numbers on the other sides of triangle add up to 9.

$3 + 5 + 1 = 9$ $2 + 6 + 1 = 9$

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1. Now use numbers 1-6 to make your own magic triangle.

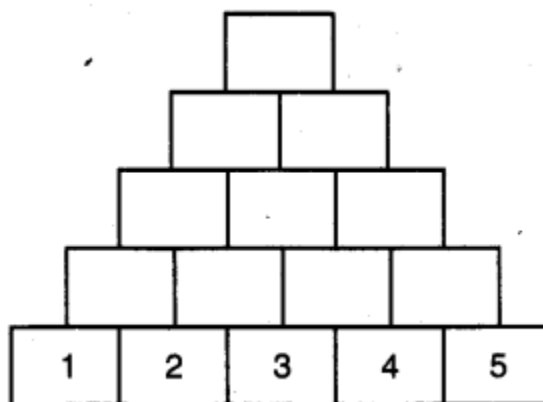
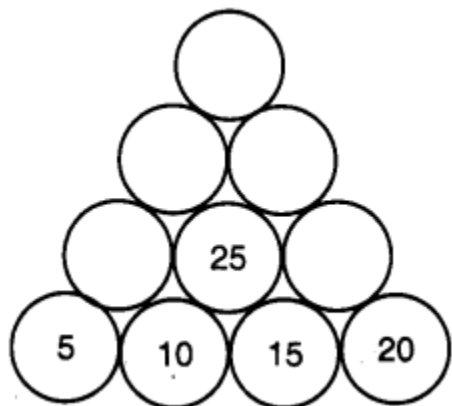
Rule: Numbers on each side must add up to It

Ans. The numbers from 1—6 can be arranged as follows which will be added up to 10.

$1 + 6 + 3 = 10$ $1 + 4 + 5 = 10$ $3 + 2 + 5 = 10$

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



Ans. In the circle towers, numbers at the base is added and form the number of the above circle.

$5 + 10 = 15$ $15 + 20 = 35$ $15 + 25 = 40$

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$$25 + 35 = 60 \quad 60 + 40 = 100$$

In the rectangle number tower:

$$1 + 2 = 3 \quad 2 + 3 = 5 \quad 3 + 4 = 7$$

$$4 + 5 = 9$$

In the third level

$$3 + 5 = 8 \quad 5 + 7 = 12 \quad 7 + 9 = 16$$

In the fourth level

$$8 + 12 = 20 \quad 12 + 16 = 28 \quad \text{On the fourth level (top)}$$

$$20 + 28 = 48$$

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The Same Sum Rule

1. Now you write any number and the three numbers after that. Make a pattern using the rule.

--	--	--	--

See if you get the same sum

	+		=	
	+		=	

Ans. The number using the same pattern is as follows:

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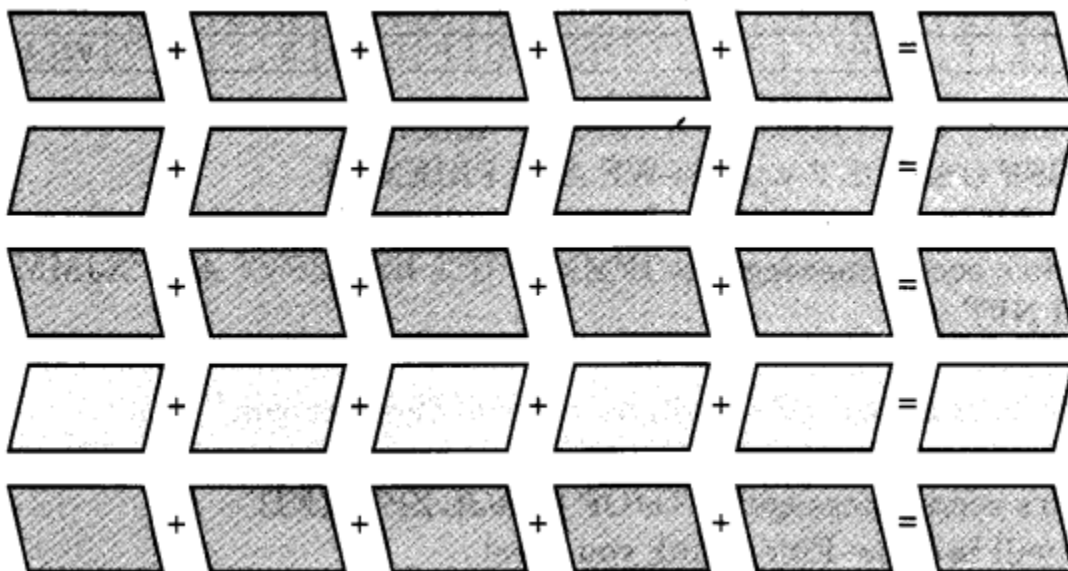
21	22	23	24
----	----	----	----

21	+	24	=	45
22	+	23	=	45

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Patterns with Addition

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



Ans.

$$1 + 2 + 3 + 4 + 5 = 15 \quad 2 + 3 + 4 + 5 + 6 = 20$$

$$3 + 4 + 5 + 6 + 7 = 25 \quad 4 + 5 + 6 + 7 + 8 = 30$$

$$5 + 6 + 7 + 8 + 9 = 35$$

2. Does the sum grow by 5 each time?

Ans. Yes, the sum grows by 5 each time.

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Secret Messages

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

Ans.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

2. Teenu wants to write to his friend 'Good Morning'. What will he write by using the same rule?

Ans. 7 15 15 4 13 15 18 14 9 14 7

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'?

Ans.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
26	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Let Us Dance will be-11 4 19 20 18 3 26 13 24

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More Secret Messages

Jaggu-You see, we have changed each letter by its next letter. That is, we write 'G' in place of 'F', 'O' in place of 'N'. So 'YES'-becomes 'ZFT'.

Kahuli-See what I have written-'XF BSF GSJFOET?'

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1. What was Kahuli's secret message?

Ans. New arrangement of letters for secret message is as follows:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A

Therefore, secret message written by Kahuli ‘

‘XF BSF GSJFOET’ will be-WE ARE FRIENDS

2. What did Shablu and Jaggu write?

Ans. Shablu's secret message is-TFMMP! IPX BSF ZPV?’ And ‘XJMM ZPV QMBZ XJUI NF?’

Therefore

‘IFMMP! IPX BSF ZPV?’ will be – Hello! How are you?

And ‘XJMM ZPV QMBZ XJUI NF?’ will be – Will you play with me?

Jaggu's secret message is-‘GJOF UIBOL ZPV. ZFT!’

This will become-Fine thank you. Yes!

3. Use the same rule to write-Meet me on the moon’.

Ans. The secret message for ‘Meet me on the moon’ will become-Nffu nf po uif nppo.

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

Ans. New rule-Write ‘A’ at the place of ‘C’, B at the place of ‘D’ and so on. Following this rule the new key will be

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X

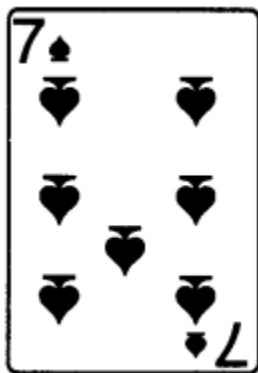
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Write the 'I am going to play' using this new rule This message will become-G yk emgle tm njyw.

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

Ans. This card looks like as follows when keep upside down.



Floor Patterns

2. Have you ever seen a floor with tiles of these shapes?

Ans. No, I did not see this type of floor tiles.

(a) Now, you cover this floor with this tile.

Ans. For self attempt.

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

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

Ans. For self attempt.

Now we cannot make the design without leaving a gap using circular tiles.

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(c) Complete this tiling pattern.

Ans. For self attempt.

(d) Ramaiya has made a wall with his blocks. Can you complete this for him?

Ans. For self attempt.

(e) Renu began to paint this wall. Now you help her to complete it.

Ans. For self attempt.

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Chapterwise NCERT Solutions for Class 4 Maths :

- Chapter 1: Building with Bricks
- Chapter 2: Long and Short
- Chapter 3: A Trip to Bhopal
- Chapter 4: Tick-Tick-Tick
- Chapter 5: The Way The World Looks
- Chapter 6: The Junk Seller
- Chapter 7: Jugs and Mugs
- Chapter 8: Carts and Wheels
- Chapter 9: Halves and Quarters
- Chapter 10: Play with Patterns
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- Chapter 12: How Heavy? How Light?
- Chapter 13: Fields and Fences
- Chapter 14: Smart Charts

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