CBSE Worksheet
Class 5 Maths
Chapter 7: Can you See the Pattern?

1. Fill in the blanks.

(a) $82 \times \ldots\ldots = \ldots\ldots \times 45$

(b) $46 + \ldots.. = \ldots\ldots + 89$

(c) $45 + 15 + \ldots\ldots = 45 + 36 + \ldots.$

(d) $45 \times \ldots \times 89 = 15 \times \ldots. \times 45$

(e) A, D, G, …., M, P

2. Complete the Series.

36, 46, 56, 66, 76, …, …., …..

3. Complete the Pattern

AB, BC, CD, DE, …..., …..., …..., ……

4. Look at the pattern of the number and take it forward.

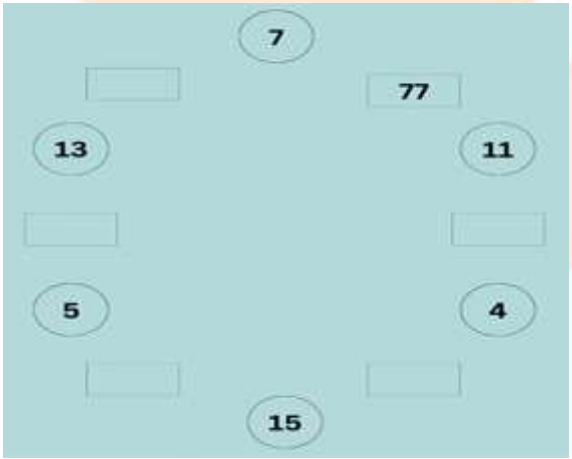
$1 \times 1 = 1$

$11 \times 11 = 121$

$111 \times 111 = 12321$

$1111 \times 1111 = !!!!!$

5. You will get the number in each bracket by multiplying the number on both side on the box.

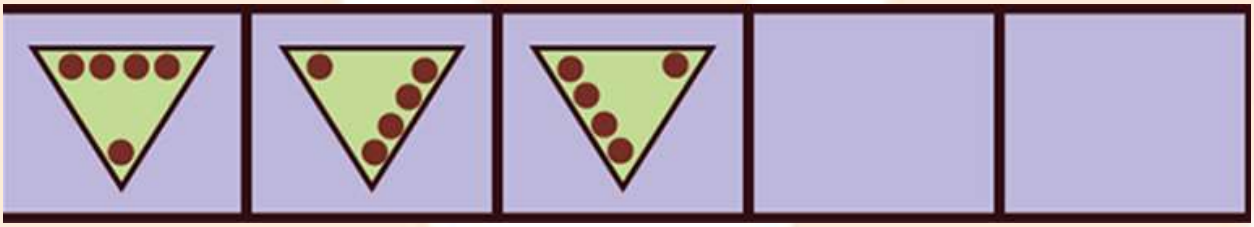


6. Use all of the numbers between 46 and 54 to fill in the square. 150 is the sum of each line.

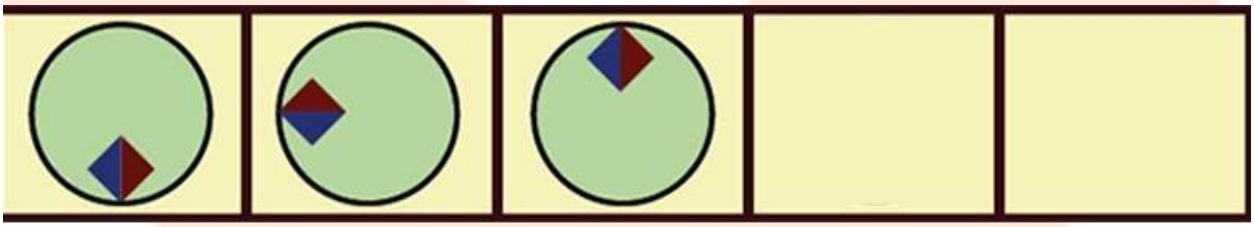
49		**48**
		46
47		**52**

7. What should happen next?

8. What should happen next?



9. What should happen next?



10. Look at this pattern and guess the correct option.

(a) (b) (c) (d)

11. Find the incorrect number in the pattern provided.
13, 26, 39, 52, 66, 78, 91, 104, 117

(a) 39
(b) 66
(c) 52
(d) 117

12. Find the incorrect number in the pattern provided.
ae, bf, cg, dh, ek, fj

(a) ae
(b) cg
(c) ek
(d) fj

13. Find the incorrect number in the pattern provided.
16, 25, 36, 49, 64, 81, 1000

(a) 1000
(b) 25
(c) 36
(d) 49

14. Complete the Series.
a, e, ….., o, u

15. Complete the given pattern by filling in the next number.
December, October, August, June,....., ……

16. Complete the given pattern by filling in the next number.

A1B, C2D, E3F, G4H,.....

17. Complete the given pattern by filling in the next number.
777, 666, 555, 444,.....

18. Find the missing number in the given series 13, 24, 46, 90, 178, ?.

19. Find the missing number in the given series 4, 18, ___, 100, 180, 294, 448.

20. Complete the given pattern by filling in the next number.
ZA, YB, XC, WD,.....

Answers to the Worksheet:

1. Below are the correct fill in the blanks:
   (a) $82 \times \underline{45} = \underline{82} \times 45$
   (b) $46 + \underline{89} = \underline{46} + 89$
   (c) $45 + 15 + \underline{36} = 45 + 36 + \underline{15}$
   (d) $45 \times \underline{15} \times 89 = 15 \times \underline{89} \times 45$
   (e) \$A, D, G,\$ $\underline{J}$, \$M, P\$

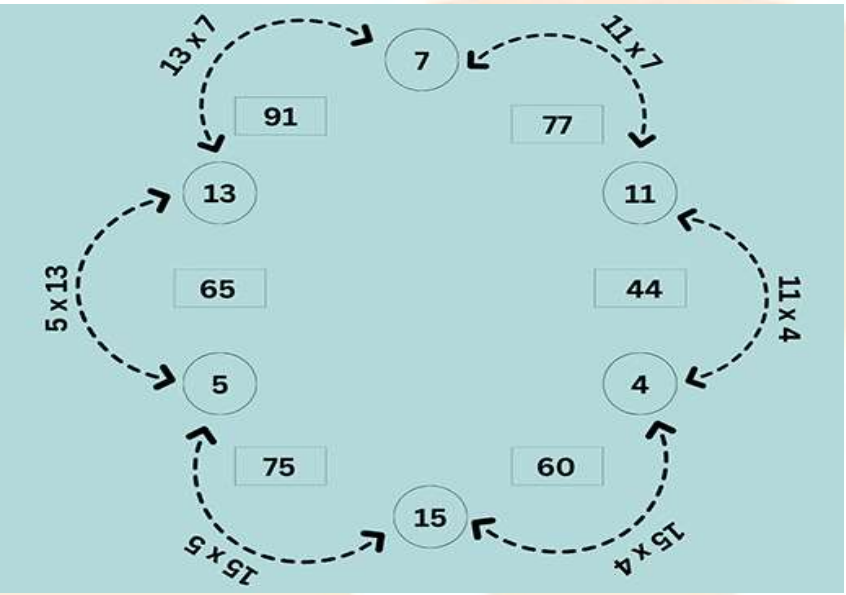
2. Here from the pattern we can see that there is the addition of 10 with each successive term.
Hence, on completing the series, we get
$36, 46, 56, 66, 76, \underline{86}, \underline{96}, \underline{106}$

3. Here from the pattern it can be seen that each AB is followed by 1 place forward. i.e. A will become B and B will become C. So AB followed by BC then CD and so on.
Hence, the pattern will become:
$AB, BC, CD, DE, \underline{EF}, \underline{FG}, \underline{GH}$

4. Look at the pattern of the number and take it forward.
$1 \times 1 = 1$
$11 \times 11 = 121$
$111 \times 111 = 12321$

$1111 \times 1111 = \underline{1234321}$

5. You will get the number in each bracket by multiplying the number on both side on the box.

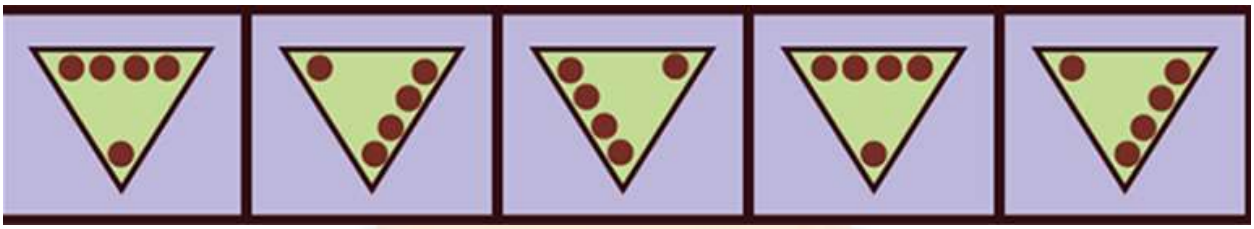


6. Here, we will use all of the numbers between 46 and 54 to fill in the square. As 150 is the sum of each line.

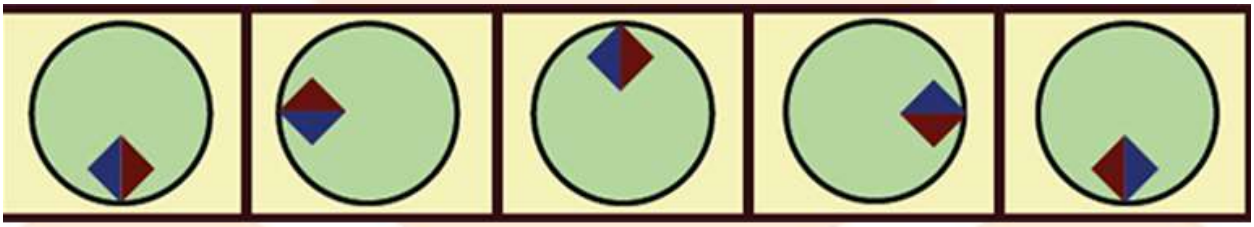
49	<u>53</u>	48
<u>50</u>	<u>54</u>	46
47	<u>51</u>	52

7. The correct pattern will become

8. The correct pattern will become



9. The correct pattern will become



10. The correct pattern will become option c.

11. Correct option: (b)
Here, in this question we have to find the incorrect number in the pattern provided.
13, 26, 39, 52, 66, 78, 91, 104, 117
So as per the pattern,
13 + 13 = 26
26 + 13 = 39
39 + 13 = 52
52 + 13 = 65
65 + 13 = 78
78 + 13 = 91
91 + 13 = 104
104 + 13 = 117
Therefore, 66 is the number that is wrong in the given pattern.

12. Here, in this question we have to find the incorrect number in the pattern provided.

ae, bf, cg, dh, ek, fj
So as from the table we can see that the ek is not following the pattern.

a	b	c	d	**e**	f
e	f	g	h	**k**	j

Hence, ek is the correct answer. i.e. option (c).

13. Correct option: (a)
In this question, we need to find the incorrect number in the pattern provided.
16, 25, 36, 49, 64, 81, 1000
As,
$4 \times 4 = 16$
$5 \times 5 = 25$
$6 \times 6 = 36$
$7 \times 7 = 49$
$9 \times 9 = 81$
$10 \times 10 = 100$
Therefore, 1000 is the number that is wrong in the given pattern.

14. In this question, we have to complete the Series.
a, e, __, o, u
If we look at the English vowels, it can be like this;
a, e , i, o, u

15. December, October, August, June, April,....., …….
Months: January, February, March, April, May, June, July, August, September, October, November, December.
Here the four months of the year have been told, on the basis of which this pattern can be made. By counting from December in reverse pattern one month is skipped.
December, October, August, June, April, February.

16. A1B, C2D, E3F, G4H, I5J, K6L, M7N.
Here, the pattern is as following:
In 1st letter, there is the gap of one alphabet. i.e. A, C, E, G, **I, K, M …**
In 2nd letter, there is no gap in counting. i.e. 1, 2, 3, 4, **5, 6, 7…**

In 3rd letter, there is the gap of one alphabet. i.e. B, D, F, H, **J, L, N …**

1st letter	A	C	E	G	I	K	M
2nd letter	1	2	3	4	5	6	7
3rd letter	B	D	F	H	J	L	N

Therefore, the sequence will be: A1B, C2D, E3F, G4H, **I5J, K6L, M7N.**

17. $777, 666, 555, 444, \underline{333}, \underline{222}, \underline{111}$

Here, the pattern is as following:

From 1st digit to 3rd digit, there is the gap of one digit in decreasing manner. i.e. 777, 666, 555, 444, 333, 222, 111

1st digit	7	6	5	4	3	2	1
2nd digit	7	6	5	4	3	2	1
3rd digit	7	6	5	4	3	2	1

Therefore, the sequence will be: 777, 666, 555, 444, **333, 222, 111.**

18. Given series: 13, 24, 46, 90, 178, ?.

24 – 13 = 11

46 – 24 = 22

90 – 46 = 44

178 – 90 = 88

The logic used here is that the difference between two successive numbers is doubled consecutively.

So, if 88 is doubled, we get 176.

Hence, 178 + 176 = 354.

Thus, the missing term in the sequence is 354.

Therefore, the complete series is 13, 24, 46, 90, 178, **354.**

19. The given sequence is obtained as follows:

$2^3 - 2^2 = 8 - 4 = 4$

$3^3 - 3^2 = 27 - 9 = 18$

$4^3 - 4^2 = 64 - 16 = 48$

$5^3 - 5^2 = 125 - 25 = 100$

$6^3 - 6^2 = 216 - 36 = 180$

$7^3 - 7^2 = 343 - 49 = 294$

$8^3 - 8^2 = 512 - 64 = 448$

Hence, the missing number in the series is 48.

Therefore, the complete series is $4, 18, \underline{48}, 100, 180, 294, 448$.

20. ZA, YB, XC, WD, <u>VE</u>, <u>UF</u>, <u>TG</u>, <u>SH</u>

If we pay attention to the English alphabet, then we will find that the first character of this series is the alphabet starting from the back of the English,

Z,Y,X,W,V,T,S……

and the second letter starts from the beginning.

A,B,C,D,E,.....