

Activity-1

Complete the following patterns:

What comes next.....

1.

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2.

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3.

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4.

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5.

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6.

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Activity-2

Complete the number patterns. Also identify the rule. The first one has been done for you.

1. 15, 17, 19, 21, 23 , 25 , 27 , 29 ,

Observe $15 + 2 = 17$, $17 + 2 = 19$, $19 + 2 = 21$.

So, the rule is to add 2 to get the next number.

Thus, $21 + 2 = 23$; $23 + 2 = 25$; $25 + 2 = 27$ and so on.

Solution : 15, 17, 19, 21, 23, 25, 27, 29.

2. 100, 90, 80, 70, 60 , 50 , 40 , 30

3. 2, 4, 8, 16, 32 , 64 , 128 , 256

4. 900, 800, 700, 600, 500 , 400 , 300 , 200

5. 99, 88, 77, 66, 55 , 44 , 33 , 22

6. 5, 10, 15, 20, 25 , 30 , 35 , 40

7. 8, 18, 28, 38, 48 , 58 , 68 , 78

Activity-3

Look at the grid given below :

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	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Look at the numbers in the coloured boxes. What do you observe?

1. The numbers are

3, 6, 9, 12,15.....,18.....,21.....,24.....,27.....

Observe the pattern and fill in the blanks :

$$3 = 0 + 3$$

$$12 = 9 + 3$$

$$21 = \dots 18 \dots + 3$$

$$6 = 3 + 3$$

$$15 = \dots 12 \dots + 3$$

$$24 = \dots 21 \dots + 3$$

$$9 = 6 + 3$$

$$18 = \dots 15 \dots + 3$$

$$27 = \dots 24 \dots + 3$$

2. Observe the pattern and fill in the blanks :

$$1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 = 55$$

$$11 + 12 + 13 + 14 + 15 + 16 + 17 + 18 + 19 + 20 = 155$$

$$21 + 22 + 23 + 24 + 25 + 26 + 27 + 28 + 29 + 30 = 255$$

$$31 + 32 + 33 + 34 + 35 + 36 + 37 + 38 + 39 + 40 = \dots 355 \dots$$

$$41 + 42 + 43 + 44 + 45 + 46 + 47 + 48 + 49 + 50 = \dots 455 \dots$$