# **SEQUENCES**



















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Answer:







## **B NUMERICAL SEQUENCE**

## **B.1 FINDING NEXT NUMBER**

Ex 17:

Answer:

0, 1, 2, 3, 4, 5.

Answer:

+1 +1 +1 +11, 2, 3, 4, 5

7, 6, 5, 4, 3.

-1 -1 -1 -17, 6, 5, 4, 3

Ex 19:

Answer:

+2 +2 +2 +2 +20, 2, 4, 6, 8

0, 2, 4, 6, 8.

Ex 20:

Answer:

+2 +2 +2 +2 +21, 3, 5, 7, 9

1, 3, 5, 7, 9.



Answer:

10, 8, 6, 4, 2

Ex 22:

$$0, 5, 10, 15, 20$$
.

Answer:

+5	+5 +	-5 +5	5
0, 5	, 10	, 15 ,	20

Ex 23:

```
1, 4, 7, 10, 13.
```

Answer:

+3 -	+3 +3	3 +3	3
1, 4	, 7 ,	10,	13

Ex 24:

```
0, 4, 8, 12, 16.
```

Answer:

Ex 25:

```
20, 17, 14, 11, 8
```

Answer:

### B.2 FINDING NEXT NUMBER: +10 INCREASE

Ex 26: Each color group represents a step in the sequence.



How many circles will there be in the next step?

Answer:

• To find the total number of circles in the next step, observe how the number of circles increases in each group:

- Step 1: 10 circles (1 group of 10),
- Step 2: 20 circles (2 groups of 10),
- Step 3: 30 circles (3 groups of 10),
- Step 4: 40 circles (4 groups of 10),
- Step 5: 50 circles (5 groups of 10).
- The pattern shows that each step adds one more group of 10. The next step (step 6) will have 60 circles.

10	20	30	40	50	60

• The total number of circles in the next step is 60.



How many circles will there be in the next step?

53 circles.

Answer:

- To find the total number of circles in the next step, observe how the number of circles increases in each group:
  - Step 1: 3 circles (initial group),
  - Step 2: 13 circles (1 group of 10 added to 3),
  - Step 3: 23 circles (2 groups of 10 added to 3),
  - Step 4: 33 circles (3 groups of 10 added to 3),
  - Step 5: 43 circles (4 groups of 10 added to 3).
- The pattern shows that each step adds one more group of 10. The next step (step 6) will have 53 circles.



• The total number of circles in the next step is 53.

Ex 28: Each color group represents a step in the sequence.



How many circles will there be in the next step?

56 circles.

#### Answer:

- To find the total number of circles in the next step, observe how the number of circles increases in each group:
  - Step 1: 6 circles (initial group),
  - Step 2: 16 circles (1 group of 10 added to 6),
  - Step 3: 26 circles (2 groups of 10 added to 6),
  - Step 4: 36 circles (3 groups of 10 added to 6),
  - Step 5: 46 circles (4 groups of 10 added to 6).
- The pattern shows that each step adds one more group of 10. The next step (step 6) will have 56 circles.



• The total number of circles in the next step is 56.

Ex 29: Each color group represents a step in the sequence.

	 ••••

How many circles will there be in the next step?

45 circles.

Answer:

- To find the total number of circles in the next step, observe how the number of circles increases in each group:
  - Step 1: 5 circles (initial group),
  - Step 2: 15 circles (1 group of 10 added to 5),
  - Step 3: 25 circles (2 groups of 10 added to 5),
  - Step 4: 35 circles (3 groups of 10 added to 5).
- The pattern shows that each step adds one more group of 10. The next step (step 5) will have 45 circles.



• The total number of circles in the next step is 45.

#### **B.3 FINDING NEXT NUMBER: +10 INCREASE**

Ex 30:

Answer:

0, 10, 20, 30, 40, 50.

+10 +10 +10 +10 +10 +10 0 , 10 , 20 , 30 , 40 , 50

15, 25, 35, 45, 55, 65

+10 +10 +10 +10 +10

15, 25, 35, 45, 55, 65

4, 14, 24, 34, 44, 54

+10 +10 +10 +10 +10

4, 14, 24, 34, 44, 54

Ex 31:

Answer:

Ex 32:

Answer:

Ex 33:

16, 26, 36, 46, 56, 66

Answer:

+10 +10 +10 +10 +10 +10 +10 16 , 26 , 36 , 46 , 56 , 66

### **B.4 FINDING NEXT NUMBER: +5 INCREASE**

Ex 34: Each color group represents a step in the sequence.

•	•	•	•	•
•	•	•	•	
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•

How many circles will there be in the next step?

30 circles.



(°±°)

• The total number of circles in the next step is 30.

Ex 35: Each color group represents a step in the sequence.



How many circles will there be in the next step?

29 circles.

Answer:



• The total number of circles in the next step is 29.

Ex 36: Each color group represents a step in the sequence.



How many circles will there be in the next step?



Answer:



• The total number of circles in the next step is 28.

Ex 37: Each color group represents a step in the sequence.

How many circles will there be in the next step?







• The total number of circles in the next step is 22.

#### **B.5 FINDING NEXT NUMBER: +5 INCREASE**

Ex 38:

0, 5, 10, 15, 20, 25.

Answer:

+5 +5 +5 +5 +5 +5 0 , 5 , 10 , 15 , 20 , 25

Ex 39:

2, 7, 12, 17, 22, 27

Answer:

+5 +5 +5 +5 +5 +52 , 7 , 12 , 17 , 22 , 27

Ex 40:

Answer:

+5 +5 +5 +5 +54 , 9 , 14 , 19 , 24 , 29

4, 9, 14, 19, 24, 29

Ex 41:

3, 8, 13, 18, 23, 28, 33, 38

Answer:



### B.6 FINDING NEXT NUMBER: +100 INCREASE

Ex 42: Each color group represents a step in the sequence.

|--|--|

How many cubes will there be in the next step?

500 cubes.

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Answer:





How many cubes will there be in the next step? 324 cubes.

• The total number of cubes in the next step is 324.

Answer:

## **B.7 FINDING NEXT NUMBER: +100 INCREASE**

Ex 46:

0, 100, 200, 300, 400, 500

Answer:

+100 +100 +100 +100+1000, 100, 200, 300, 400, 500

Ex 47:

130, 230, 330, 430, 530, 630

+100 +100 +100 +100 +100130 , 230 , 330 , 430 , 530 , 630

10, 110, 210, 310, 410, 510, 610

+100 +100 +100 +100 +100 +10010, 110, 210, 310, 410, 510, 610

Ex 49:

186, 286, 386, 486, 586, 686

Answer:

+100+100 +100 +100 +100186, 286, 386, 486, 586, 686

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