

Worksheet

Can You See The Pattern

Q.1. (a) Fill in the missing values and describe the Number Pattern!

0, 3, 6, 9,__,__,...	What is the pattern? Add 3
0, 5, 10, 15,__,__,...	What is the pattern? Add 5
0, 4, 8, 12,__,__,...	What is the pattern? Add 4
0, 2, 4, 6,__,__,...	What is the pattern? Add 2
0, 9, 18, 27,__,__,...	What is the pattern? Add 9
0, 7, 14, 21,__,__,...	What is the pattern? Add 7
0, 6, 12, 18,__,__,...	What is the pattern? Add 6
0, 8, 16, 24,__,__,...	What is the pattern? Add 8

Ans.

0, 3, 6, 9, 12, 15,...	What is the pattern? Add 3
0, 5, 10, 15, 20, 25,...	What is the pattern? Add 5

0, 4, 8, 12, 16, 20 ,...	What is the pattern? Add 4
0, 2, 4, 6, 8, 10 ,...	What is the pattern? Add 2
0, 9, 18, 27, 36, 45 ,...	What is the pattern? Add 9
0, 7, 14, 21, 28, 35 ,...	What is the pattern? Add 7
0, 6, 12, 18, 24, 30 ,...	What is the pattern? Add 6
0, 8, 16, 24, 32, 40 ,...	What is the pattern? Add 8

(b)

82, 79, 70, __, __, 55, ...	What is the pattern? Subtract 3, then subtract 9
73, 67, 63, __, __, 47, ..	What is the pattern? Subtract 6, then subtract 4
76, 84, 93, 101, __, __, ...	What is the pattern? Add 8, then add 9
88, 96, 100, __, __, 120, ...	What is the pattern? Add 8, then add 4
35, 33, 27, __, __, 17, ...	What is the pattern? Subtract 2, then subtract 6
77, 74, 68, __, __, 56, ...	What is the pattern? Subtract 3, then subtract 6

75, 72, 64, 61, __, __, ...	What is the pattern? Subtract 3, then subtract 8
__, __, 84, 90, 95, 101, ...	What is the pattern? Add 6, then add 5

Ans.

82, 79, 70, 67, 58 , 55, ...	What is the pattern? Subtract 3, then subtract 9
73, 67, 63, 57, 53 , 47, ...	What is the pattern? Subtract 6, then subtract 4
76, 84, 93, 101, 110, 118 , ...	What is the pattern? Add 8, then add 9
88, 96, 100, 108, 112 , 120, ...	What is the pattern? Add 8, then add 4
35, 33, 27, 25, 19 , 17, ...	What is the pattern? Subtract 2, then subtract 6
77, 74, 68, 65, 59 , 56, ...	What is the pattern? Subtract 3, then subtract 6
75, 72, 64, 61, 53, 50 , ...	What is the pattern? Subtract 3, then subtract 8
73, 79 , 84, 90, 95, 101, ...	What is the pattern? Add 6, then add 5

Q.2. (a) Examine the number pattern below.

1,203 , 1,624 , 2,045 , 2,466 ...

What rule does this pattern follow?	—
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Write the next three numbers in the pattern.	____,____,____
If the pattern continues, what will the 10th number in the sequence be?	____

Ans.

What rule does this pattern follow?	add 421
Write the next three numbers in the pattern.	2,887 ; 3, 308 ; 3, 729
If the pattern continues, what will the 10 th number in the sequence be?	4,992

(b) Examine the number pattern below.

10,000 , 9,899 , 9,798 , 9,697 ...

What rule does this pattern follow?	____
Write the next three numbers in the pattern.	____,____,____
If the pattern continues, what will the 11th number in the sequence be?	____

Ans.

What rule does this pattern follow?	subtract 101
Write the next three numbers in the pattern.	9,596 ; 9, 495 ; 9, 394
If the pattern continues, what will the 11 th number in the sequence be?	8,990

(c) Examine the number pattern below.

5,554 , 5,274 , 4,994 , 4,714 ...

What rule does this pattern follow?	_____
Write the next three numbers in the pattern.	_____,_____,____
If the pattern continues, what will the 12th number in the sequence be?	_____

Ans.

What rule does this pattern follow?	subtract 280
Write the next three numbers in the pattern.	4,434; 4, 154 ; 3, 874
If the pattern continues, what will the 12 th number in the sequence be?	2,474

Q.3. Number Patterns (A)

Instructions: Write the next three terms in the patterns below.

51, 44, 37, 30,_,_,_.	54, 51, 48, 45,_,_,_.
52, 48, 44, 40,_,_,_.	63, 58, 53, 48,_,_,_.
7, 9, 11, 13,_,_,_.	12, 20, 28, 36,_,_,_.
4, 10, 16, 22,_,_,_.	13, 16, 19, 22,_,_,_.
10, 18, 26, 34,_,_,_.	23, 29, 35, 41,_,_,_.
72, 66, 60, 54,_,_,_.	58, 51, 44, 37,_,_,_.
8, 16, 24, 32,_,_,_.	22, 30, 38, 46,_,_,_.

17, 22, 27, 32, _ _ _ .	3, 4, 5, 6, _ _ _ .
68, 64, 60, 56, _ _ _ .	70, 69, 68, 67, _ _ _ .
53, 52, 51, 50, _ _ _ .	71, 65, 59, 53, _ _ _ .

Ans.

51, 44, 37, 30, 23, 16, 9.	54, 51, 48, 45, 42, 39, 36.
52, 48, 44, 40, 36, 32, 28.	63, 58, 53, 48, 43, 38, 33.
7, 9, 11, 13, 15, 17, 19.	12, 20, 28, 36, 44, 52, 60.
4, 10, 16, 22, 28, 34, 40.	13, 16, 19, 22, 25, 28, 31.
10, 18, 26, 34, 42, 50, 58.	23, 29, 35, 41, 47, 53, 59.
72, 66, 60, 54, 48, 42, 36.	58, 51, 44, 37, 30, 23, 16.
8, 16, 24, 32, 40, 48, 56.	22, 30, 38, 46, 54, 62, 70.
17, 22, 27, 32, 37, 42, 47.	3, 4, 5, 6, 7, 8, 9.
68, 64, 60, 56, 52, 48, 44.	70, 69, 68, 67, 66, 65, 64.
53, 52, 51, 50, 49, 48, 47.	71, 65, 59, 53, 47, 41, 35.

Q.4. Part - A

(i) Write the greatest odd number formed by the digits 2, 8 and 5.

Ans. 825

(ii) Write the smallest even number formed by the digits 4, 3, 1 and 6.

Ans. 1,346

(iii) Write the smallest odd number formed by the digits 7, 2 and 9.

Ans. 279

(iv) Write the greatest even number formed by the digits 5, 7, 6 and 1.

Ans. 7,516

Part - B

(i) Write all possible odd numbers formed by the digits 3, 6 and 2.

Ans. 263, 623

(ii) Write all possible even numbers formed by the digits 6, 1 and 8.

Ans. 168, 186, 618, 816

(iii) Write all possible odd numbers formed by the digits 7, 4 and 9.

Ans. 479, 497, 749, 947

(iv) Write all possible even numbers formed by the digits 2, 5 and 3.

Ans. 352, 532