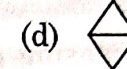
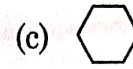


Choose the correct option in the following questions (1-3):

1. The picture to be drawn to complete the given pattern is



2. The value of the series $1 + 3 + 5 + 7 + 9 + 11$ is

(a) 6

(b) 13

(c) 6^2

(d) 5^2

3. The value of $2x + 5$ is 17 for x equal to

(a) 3

(b) 5

(c) 6

(d) 12

4. Observe the pattern and write the pattern rule:

(a) 38, 44, 50, 56

(b) 2000, 200, 20, 2

5. John says he made a pattern by starting at 7 and adding 5 each time. Write the first three terms of John's pattern:

.....,,

6. Use the pattern rule to make the pattern. Write the first five terms.

(a) Start with 18 and subtract 3 each time:,,,,

(b) Start at 63 and divide by 7 each time:,,,,

7. Replace the variable with the given number and then evaluate:

(a) $2h$, $h = 7$

(b) $n + 3$, $n = 8$

(c) $6 + 2t$, $t = 4$

(d) $4p$, $p = 3$

13. Fill in the missing numbers:

(a)

35			41		45		
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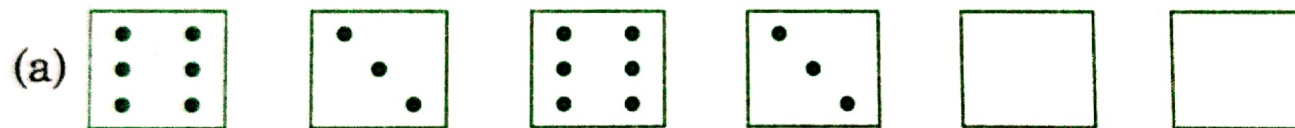
(b)

16		22			31	
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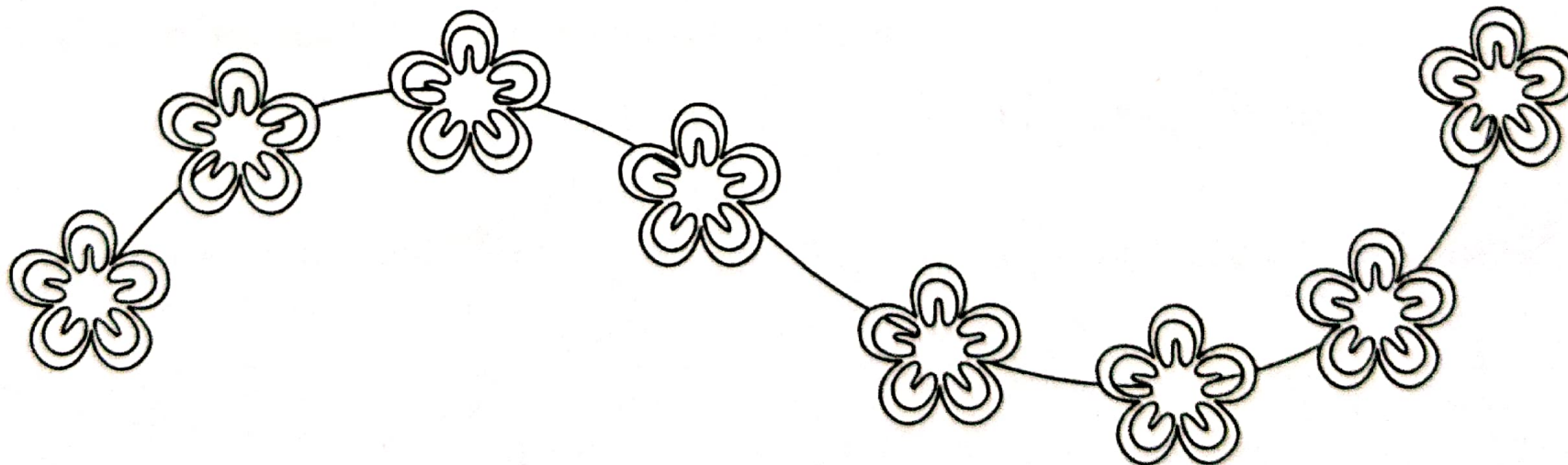
(c)

100	97		91		85	
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14. Complete the dice pattern:



15. Colour the flowers of this picture in a beautiful colour pattern.



Choose the correct option in the following questions (1-3):

1. How would you describe the pattern rule: 65, 62, 59, 56, 53, 50
(a) Subtract 2 (b) Subtract 3 (c) Add 2 (d) Add
2. What comes in the blank in the given pattern? 47, 51, 55,, 63, 67
(a) 56 (b) 59 (c) 61 (d) 64
3. Which number comes next in the sequence: 3, 5, 8, 13, 22,?
(a) 32 (b) 39 (c) 35 (d) 37
4. Observe the pattern and write the pattern rule.
(a) 5, 20, 80, 320
(b) 61, 56, 51, 46
5. Use the pattern rule to make the pattern. Write the first five terms.
(a) Start at 4 and multiply by 5 each time.,,,,
(b) Start at 25 and add 6 each time.,,,,
6. Replace the changing quantity with letter 'n' and write the pattern rule.
(a) $1 + 5, 2 + 5, 3 + 5$ —
(b) $2 \times 6, 2 \times 7, 2 \times 8$ —
(c) $9 - 1, 9 - 2, 9 - 3$ —

7. A pattern was made from hexagons and triangles:

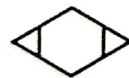


Fig. 1

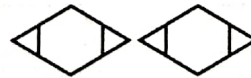


Fig. 2



Fig. 3

- (a) Draw a table and write a pattern to find how to get the number of triangles from the number of hexagons.

(c) Predict how many squares are in the 10th figure.

Fig. 1 1×1

Fig. 2 2×2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

12. A florist set up a new stall of flowers. She sold 5 flowers on the first day, 9 flowers on the second day and 13 flowers on the third day. If this pattern continues, how many flowers will she sell on the fifth day?

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13. An apple tree was 24 ft. tall in the year 2018. Every year it grew by 2 ft. How tall will it be in the year 2021 and in 2023?

Year	2018	2019	2020	2021	2022	2023
Height of the tree (ft)	24	26	28		32	

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