

Mathematics

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(Chapter - 11) (Algebra) (Practice Test 4)

(Class VI)

Time: 1 Hour 15 Minutes

M. M: 25

General Instructions:

- This question paper contains four sections: A, B, C and D. Each part is compulsory.
- Section A has 5 MCQ of one mark each.
- Section B has 3 questions of two marks each.
- Section C has 3 questions of three marks each.
- Section D has 2 questions of five marks each, attempt any 1 out of 2.
- There is no negative marking.

[Section - A]

1. The rule, which gives the number of matchsticks required to make the matchstick pattern C, is
(A) $2n$ (B) $3n$ (C) $4n$ (D) $5n$
2. The side of a regular hexagon is l . Its perimeter is
(A) l (B) $2l$ (C) $3l$ (D) $6l$.
3. Which of the following is an expression with numbers only?
(A) $x + 1$ (B) $2x$ (C) $1 - x$ (D) 3 .
4. The radius of a circle is r . Its diameter is
(A) $2r$ (B) $4r$ (C) $3r$ (D) $6r$.
5. The expression for '1 added to p ' is
(A) $p + 1$ (B) $p - 1$ (C) $1 - p$ (D) $-1 - p$

[Section - B]

6. If $x = 1$ and $y = 2$, then $2x + 3y = \dots\dots\dots$
7. 4 less than a number $x = \dots\dots\dots$
8. The side of an equilateral triangle is shown by l . Express the perimeter of the equilateral triangle using l .

[Section - C]

9. Complete the table and find the solution of the equation $19 - x = 13$

x	2	3	4	5	6	7	8	9	10	...
$19 - x$										

10. The side of a regular hexagon is s cm. Find its perimeter.
11. Write an algebraic expression for each of the following:
 - (a) 3 subtracted from a number y .
 - (b) 5 is added to three times a number x .

[Section - D]

12. If $x = 2$, $y = 3$ and $z = 5$, find the value of:
 - (a) $2x + y + z$
 - (b) $4x - y + z$
13. Think of a number, add 2 to it and then multiply the sum by 6, the result is 42?

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Answers

Section - A

1. $3n$
2. $6l$
3. 3
4. $4r$
5. $P + 1$

Section - B

6. 8
7. $X - 4$
8. $3l$

(Hint: Side of equilateral triangle = l
Perimeter = $l + l + l = 3l$)

Section-C

9. (Hint: By inspection, we have

x	2	3	4	5	6	7	8	9	10	---
$19 - x$	17	16	15	14	13	12	11	10	9	---

10. (Hint: Each side of a regular hexagon = s
 \therefore its perimeter = $s + s + s + s + s + s = 6s$ cm)
11. The required expression is $y - 3$
(b) The required expression is $5 + 3x$

Section-D

12. (a) 12
($2 \times 2 + 3 + 5 = 12$)
(b) 10
($4 \times 2 - 3 + 5 = 10$)

13. Let the no. be x

According to questions

$$6(x + 2) = 42$$

$$6x + 12 = 42$$

$$6x = 30$$

$$x = 5$$

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