

Mathematics

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(Chapter - 11) (Algebra) (Practice Test 5)
(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. If Apala's present age is x years, what will be her age in years after 20 years from now?
(A) $x + 20$ (B) $x - 20$
(C) x^{20} (D) $20x$
2. $b \times b \times b \times b =$
(A) b^4 (B) b^3 (C) b^2 (D) none of these
3. Which of the following is not an expression with numbers only?
(A) $2 \times (3 + 4)$ (B) $(2 + 3) \times 4$
(C) $2 \times 3 + 4 \times 5$ (D) $2x + 1$
4. Solve: $y/3 = 5$
(A) 2 (B) 15 (C) 10 (D) none of these
5. Solve: $m - 2 = 3$
(A) 3 (B) 5 (C) 1 (D) 2

Section - B

6. If p multiplied by -5 , then find the value?
7. 8 removed from twice the term x .
8. 11 added to $2m$ find, the number.

Section - C

9. Give expressions for the following cases.
10. (a) 7 added to p (b) 7 subtracted from p (c) p multiplied by 7
11. Sanjit scored 70 marks in mathematics and " x " marks in English. Find the total score in both the subjects? What is the product form of x^2y^7 ?

Section - D

12. Solve the following equation and evaluate x . Also, justify the result. $4/6x = 1/8$.
13. A bird flies 1 kilometer in one minute. Can you express the distance covered by the birds in terms of its flying time in minutes? (Use t for flying time in minutes.)

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Answers

Section - A

1. $x + 20$
2. b^4
3. $2x + 1$
4. 15
5. 5

Section - B

6. $-5p$
7. $2x - 8$
8. $2m + 11$

Section-C

9.(a) 7 is added to p is $(p + 7)$

(b) 7 subtracted from p is $(p - 7)$

(c) p multiplied by 7 is $(7p)$

10.

(a) $p + 7$

(b) $p - 7$

(c) $p \times 7$

11. 9

(Hint: The given algebraic expression is x^2y^7)

Recall that, the number of times x is multiplied with itself equals x to the power that number.

Therefore, $x^2 = x \times x$

Similarly, $y^7 = y \times y \times y \times y \times y \times y \times y$. Thus, $x^2y^7 = x \times x \times y \times y \times y \times y \times y$

Section-D

12. $1/3$

(Hint: $4/6x = 1/8$)

Multiply 6 both sides of the equation.

$$6 \times 4/6x = 6 \times 1/8$$

$$\Rightarrow 4/x = 6/8$$

Divide both sides of the equation by 4.

$$1/x = 6/2$$

$$\Rightarrow x = 1/3.$$

13. T km

(Hint: Let t minutes be the flying times)

Distance covered in one minute = 1 km

Distance covered in t minutes = Distance covered in one minute \times Flying time
= $1 \times t = t$ km).

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