

DELHI PUBLIC SCHOOL, JAMMU

SESSION: 2021-2022

DATE: 15.11.21

ASSIGNMENT -3

CLASS: VI

SUBJECT: MATHS

TOPIC: CH: 10 MENSURATION & CH: 11 ALGEBRA

Based on your understanding of the Virtual classes, E- Lectures-cum-PPT's, video links and other e-resources shared with you, answer the following questions.

CASE STUDY QUESTION:-

Q1. Read the passage given below and answer the questions that follow. An algebraic expression is a combination of constants and variables connected by the mathematical operator's addition, subtraction, multiply and division. A symbol which can be assigned different numerical values is called variable or literal. A term is a combination of constants and variables connected together by the mathematical operators of multiplication and division. Each term in an algebraic expression is the product of one or more constants and variables. These constants and variables are called the factors of that term. (4 marks)

(i) Which of the following is not an algebraic expression?

- (1) $5x+20$ (2) $7x$ (3) $9x/3$ (4) 2

(ii) If there are x rows of chairs and each row contains y chairs. The total numbers of chairs is

- (1) y (2) x (3) xy (4) none of these

(iii) In algebra, letters may stand for

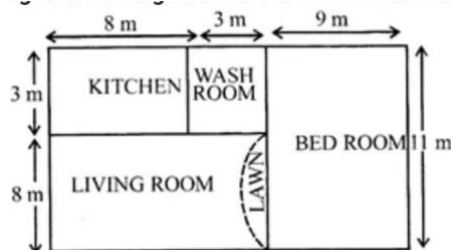
- (1) known quantities (2) unknown quantities (3) fixed numbers (4) none of these

(iv) Which of the following is incorrect?

- (1) An algebraic expression will have at least two terms.
(2) Several unlike terms are connected by $+$ or $-$ are called algebraic expression
(3) $3abc$ is a term as well as expression.
(4) none of these

Q2. Read the passage given below and answer the questions that follow. (4 marks)

Following is the arrangement of various rooms in a house.



Answer the following questions.

(i) Perimeter of floor of wash room is----

- (1) 4m (2) 3m (3) 12m (4) 7m

(ii) Area of the bed room is----

- (1) 20 sq. m (2) 99sq. m (3) 88 sq. m (4) 72 sq. m

(iii) Find the perimeter of the figure?

- (1) 60m (2) 20m (3) 62m (4) 33m

(iv) Area of the Kitchen is----

(1) 42 sq. m (2) 24 sq. m (3) 20 sq. m (d) 30sq. m

ASSERTION BASED QUESTIONS:- (2 MARKS)

Consider the following statements. Assertion (A) and the other labelled as Reason (R)?

Examine these two statements carefully and decide if the Assertion A and Reason R are individually true and if so, whether the reason is a correct explanation of the assertion. Select your answers to these items using codes given below.

Q3.Assertion:-In the expression $3x+7y-2xy+4x+8xy+9y$,
 $3x$, $4x$ are like terms, $-2xy, 5xy$ are like terms and $7y$, $9y$ are also like terms.

Reason:-When the terms have same literal factors they are called unlike terms.

- (1) If both A and R are correct and R is the correct explanation of A.
- (2) If both A and R are correct, but R is not the correct explanation of A.
- (3) If A is correct but R is incorrect.
- (4) If A is incorrect but R is correct.

Q4.Assertion:-A rectangle of length 9cm and width 4cm has greater area than a square of side 6cm.

Reason:-Rectangle and square both have the same area.

- (1) If both A and R are correct and R is the correct explanation of A.
- (2) If both A and R are correct, but R is not the correct explanation of A.
- (3) If A is correct but R is incorrect.
- (4) If A is incorrect but R is correct.

Short type question:-

(2x2=4marks)

Q5.Think of a number. Multiply by 5. Add 6 to the result.

Subtract y from this result. What is the result?

Q6.The perimeter of regular hexagon is 192cm. How long is its each side?

Long type Question:-

(3x2=6marks)

Q7. The cost of putting a fence around a square field at Rs 35 per metre is Rs 4480. Find the length of each side of the field.

Q8. A rectangular piece of land measures 0.7Km by 0.5Km. Each side is to be fenced with 4 rows of wires. What is the length of the wire needed?

Note:

- 1. Due Date of Submission :-22.11.21
- 2. Send your answers here:

Class VI-A & VI-B	to Ms. Meenakshi Abrol	meenakshi.kohli16@gmail.com
Class VI-C to VI-E	to Ms. Namrata Gupta	namratagupta942@gmail.com
Class VI-F ,G & VI-I	to Ms. Komal	komal160790@gmail.com
Class VI-H, J & K	to Ms. Antika	29ankita09@gmail.com
Class VI-L	to Mr. Sahil Sharma	sahil.sharma98589@gmail.com

2. Students must mention their name, class/section and date in their assignments.
3. Your assignment will be marked for Internal /Term assessments. Therefore, it is necessary for you to submit it on time.