

**BCM SCHOOL, BASANT AVENUE, DUGRI, LUDHIANA.  
SEPTEMBER ASSIGNMENT  
CLASS- VIII (MATHEMATICS)**

**SECTION –A (MULTIPLE CHOICE QUESTIONS)**

1. Which of the following rational number is greater than (-3)?  
a)  $\frac{-39}{26}$                       b)  $\frac{-168}{17}$                       c)  $\frac{-28}{7}$                       d)  $\frac{-49}{14}$
2. The product of monomial and binomial is a  
a) monomial                      b) binomial                      c) trinomial                      d) none of these
3. What percent of 8.25 m is 75 cm?  
a)  $\frac{150}{11}\%$                       b)  $\frac{75}{11}\%$                       c)  $\frac{80}{11}\%$                       d)  $\frac{100}{11}\%$
4. Assertion (A) – Between 50 and 60, the perfect square number is 54.  
Reasons (R) –A perfect square is a number that can be expressed as the product of an integer by itself or as the second exponent of an integer.  
a) Both A and R are true and R is the correct explanation of A  
b) Both A and R are true but R is not the correct explanation of A  
c) A is true but R is false  
d) A is false but R is true

**SECTION – B( 2 MARKS QUESTIONS)**

5. Find the square of 21 using identity.
6. The price marked on a book is Rs. 450. The shopkeeper gives 20% discount on it in a book exhibition. What is the selling price of the book?
7. Marry purchased 8 books for Rs. 56. Janie purchased 12 books. How much did Janie pay?

**SECTION – C (3 MARKS QUESTIONS)**

8. By what number should we multiply  $\frac{-8}{13}$  so that the product may be 24?
9. Three numbers are to one another 2 : 3 : 4. The sum of their cubes is 33957. Find the numbers.
10. Evaluate 95 x 97 using suitable identity.

**SECTION – D (5 MARKS QUESTIONS)**

11. Using suitable properties, find  
 $\frac{2}{5} \times \frac{-3}{7} - \frac{1}{14} - \frac{3}{7} \times \frac{3}{5}$
12. Find the least number which must be added to 306452 to make it perfect square.
13. What sum will become Rs. 9826 in 18 months if the rate of interest is  $2\frac{1}{2}\%$  p.a. and the interest is compounded half yearly?

**SECTION – E (CASE STUDY)**

14.	<p>There is a square garden in a village Mahuli. A gardener planted 8281 plants in a garden in such a way that each row contains as many plants as the number of rows. If the area of the garden is <math>1225\text{m}^2</math>. Answer the questions that follows:</p> <ul style="list-style-type: none"><li>i) Find the number of rows and the number of plants in each row?</li><li>ii) Find the perimeter of the garden?</li><li>iii) Find the square root of 25 by repeated subtraction method.</li></ul>
15.	<p>A school is an educational institution designed to provide learning spaces and learning environments for the teaching of students under the direction of teachers. Sheela goes to her school by cycle at an average speed of <math>12\text{km/hr}</math> in 20 minutes and Syna goes to her school by motor cycle at an average speed of <math>40\text{km/hr}</math>. Sheela wants to reach her school in 15 minutes. Answer the following questions:</p> <ul style="list-style-type: none"><li>i) What should be the average speed of Sheela to reach the school in 15 mins?</li><li>ii) What is the distance of school from Sheela's house?</li><li>iii) If the speed is <math>60\text{km/hr}</math>, how much distance is covered in 45 mins?</li></ul>