

BCM SCHOOL, BASANT AVENUE, DUGRI, LUDHIANA
CLASS – VII (MATHEMATICS)
JULY & AUGUST ASSIGNMENT

SECTION-A (MULTIPLE CHOICE QUESTIONS)	
Q.1	The value of the expression $40 - 10 + 10 + 10$ is a) 10 b) 40 c) 50 d) 60
Q.2	The number of terms in the expression $3 \times 8 + 3 \times 7$, is a) 4 b) 1 c) 2 d) 3
Q.3	Assertion: The expression $4(a + b)$ in simplified form is $4ab$ Reason: If $a = 2$ and $b = 3$, then $4(a + b) = 4 \times 5 = 20$, and $4ab = 4 \times 2 \times 3 = 24$ a) both assertion and reason are correct and reason is the correct explanation for assertion b) both assertion and reason are correct but reason is not correct explanation for assertion c) assertion is correct but reason is false. d) both assertion and reason are false.
SECTION-B (2 MARKS QUESTIONS)	
Q.4	What is the reciprocal of the sum of $\frac{1}{2}$ and $\frac{1}{3}$
Q.5	If $P = m^2 - n^2$, $Q = 2n + m$, find the value of $3P + 2Q$.
SECTION – C (3 MARKS QUESTIONS)	
Q.6	Lipika reads a book for $2\frac{4}{8}$ hour everyday. She read the entire book in 64 days. How many hours in all were required by her to read the entire book?
Q.7	What should be subtracted from $2x^2 + 8xy + 10$ to get $-3x^2 + 7y^2 + 16$?
SECTION – D (5 MARKS QUESTIONS)	
Q.8	From the sum of $2y^2 + 3yz$, $-y^2 - yz - z^2$ and $yz + 2z^2$, subtract the sum of $3y^2 - z^2$ and $-y^2 + yz + z^2$.
Q.9	The 10 th Fibonacci number is 55 and the 11 th is 89. Find the 12 th term. Is it odd or even?
SECTION – E (CASE STUDY)	
Q.10	The students of Class 7B are organising a Science Exhibition. They have a rectangular display board that is $4\frac{1}{2}$ meters long and $2\frac{1}{3}$ meters wide. They need to divide it into equal sections for different projects. The class has 36 students, and they plan to work in groups. The teacher asks them to use their knowledge of fractions to solve the following problems.

Based on the above case, answer the following questions:

a. What is the area of the display board?

b. If the board is divided into sections each with an area of $\frac{5}{6} \text{ m}^2$, how many sections can be made?

c. The teacher wants to use $\frac{3}{8}$ of the board's area for the main project. What area will be left for other projects

d. The class decides to put a border around the board using a ribbon. What length of ribbon is needed to go around the entire board?