

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

SECTION –A (MULTIPLE CHOICE QUESTIONS)

1.	a) $\frac{-39}{26}$
2.	b) binomial
3.	d) $\frac{100}{11}\%$
4.	d) A is false but R is true

SECTION – B(2 MARKS QUESTIONS)

5.	$21^2 = (20 + 1)^2$ $= (20)^2 + 2(20)(1) + (1)^2$ $= 441$	$[a + b]^2 = a^2 + 2ab + b^2$
6.	Discount = 20% of 450 = Rs. 90 SP = MP – Discount = Rs. 450 – Rs. 90 = Rs. 360	
7.	Let x be the cost of Janie’s book Direct Proportion $\frac{8}{12} = \frac{56}{x}$ $x = 84$	

SECTION – C (3 MARKS QUESTIONS)

8.	Let the number be y $\frac{-8}{13} x y = 24$ $y = -39$	
9.	Let the numbers be 2x, 3x and 4x $(2x)^3 + (3x)^3 + (4x)^3 = 33957$ $x = 7$ Numbers are 14, 21, 28	
10.	95×97 $(100 - 5)(100 - 3)$ Here x = 100, a = -5, b = -3 9215	$[x + a][x + b] = x^2 + x(a + b) + ab$

SECTION – D (5 MARKS QUESTIONS)

12.

$\begin{array}{r} 553 \\ 5 \overline{) 306452} \\ \underline{25} \\ 105 \\ \underline{564} \\ 525 \\ 1103 \\ \underline{3952} \\ 3309 \end{array}$	$\begin{array}{r} 554 \\ 5 \overline{) 306452} \\ \underline{25} \\ 105 \\ \underline{564} \\ 525 \\ 1104 \\ \underline{3952} \\ 4416 \end{array}$
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$$(553)^2 < 306452 < (554)^2$$

Also, 306452 is $(4416 - 3952) = 464$ less than $(554)^2$

Thus, we add 464 to 306452 , it will be a perfect square.

13.

$$\therefore A = P \left(1 + \frac{R}{200} \right)^{2n}$$

$$\Rightarrow 9826 = P \left(1 + \frac{\frac{5}{2}}{200} \right)^{2 \times \frac{3}{2}}$$

$$\Rightarrow 9826 = P \left(1 + \frac{1}{80} \right)^3$$

$$\Rightarrow 9826 = P \left(\frac{81}{80} \right)^3 \Rightarrow P = 9826 \times \left(\frac{80}{81} \right)^3 = \text{Rs } 9466.54$$

Hence, required sum = Rs 9466.54

SECTION – E (CASE STUDY)

14.

- i) 91
- ii) 140
- iii) 5