BCM SCHOOL, BASANT AVENUE, LUDHIANA

ANSWER KEY OF OCTOBER ASSIGNMENT

CLASS: VIII (MATHEMATICS)

TOPICS: LINEAR EQUATIONS IN ONE VARIABLE, EXPONENTS AND POWERS

SECTION A (MULTIPLE CHOICE QUESTIONS)	
Sol.1	c) 6, 15
Sol.2	b) 10
Sol.3	a) 3
SECTION B (2 MARKS QUESTIONS)	
Sol.4	7.5×10^{-3}
Sol.5	Let the two consecutive numbers be x and $x + 1$ A/Q $(x + 1)^2 - x^2 = 15$ So the numbers are 7 and 8
SECTION C (3 MARKS QUESTIONS)	
Sol.6	$\frac{3(17-3x)-5(4x+2)}{15} = \frac{15-18x+7x+14}{3}$ x = 4
Sol.7	x = 7
SECTION D (5 MARKS QUESTIONS)	
Sol.8	$\frac{1}{8}$
Sol.9	Let the age of Baichung be x years. The age of his father = x + 29 years, and the age of his grandfather = x + 29 + 26 = (x + 55) years. As per the conditions, we get x + x + 29 + x + 55 = 135 ⇒ 3x + 84 = 135 ⇒ 3x = 135 – 84 (transposing 84 to RHS) ⇒ 3x = 51 ⇒ x = 51 ÷ 3 (transposing 3 to RHS) ⇒ x = 17 Hence Baichung's age = 17 years Baichung's father's age = 17 + 29 = 46 years, and grand father's age = 46 + 26 = 72 years.

SECTION E (CASE STUDY)	
Sol.10	a) Let the no. of 1 rupee coins x No. of 10 rupee coins be $\frac{x}{2}$ No. of 5 rupee coins be $\frac{x}{3}$ No. of 2 rupee coins be $\frac{x}{4}$ A/Q $x + \frac{x}{2} + \frac{x}{3} + \frac{x}{4} = 400$ On solving x = 192 b) No. of 5 rupee coins is 64 c) No. of 10 rupee coins is 96