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	Size of RBC = 7×10^{-6} m	
	Size of plant cell = 1.275×10^{-5} m	
	$\therefore \frac{Size \ of \ RBC}{Size \ of \ RBC} = \frac{0.7}{2} = \frac{1}{2}$	
	Size of plant cell 1.3 2	
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	$\left \frac{3(17-3x)-5(4x+2)}{15}\right = \frac{15-18x+7x+14}{2}$	
	x = 4	
Sol.7	m + 1 + 6 = 9	
	m = 2	
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	
	$\Rightarrow 3x + 84 = 135$	
	$\Rightarrow 3x = 135 - 84$ (transposing 84 to RHS)	
	$\Rightarrow 3x = 51$	
	$\Rightarrow x = 51 \div 3$ (transposing 3 to BHS)	
	$\Rightarrow x = 17$	
	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