CLASS:X	INDIAN SCHOOL MUSCAT FIRST PERIODIC ASSESSMENT Marking Scheme	MATHEMATICS
	SET - A	
Q. NO.	VALUE POINTS	SPLIT UP OF MARKS
1 (i)	$\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$ **Intersecting lines**	$\frac{1}{2}$ $\frac{1}{2}$
(ii)	$\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$ **Parallel lines**	$\frac{1}{2}$ $\frac{1}{2}$
2.	$\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$ **Finding, K=** ± 6 **Finding, K=0 or 6** **For k=6, equation has infinitely many solutions**	**Each step carries** $\frac{1}{2}$ **mark**
3.	**Solving the first variable** **Solving the second variable** **Solution, x=1 and y=2**	**1** $\frac{1}{2}$ $\frac{1}{2}$
4.	**x-y=26----------(i)** **x=3y----------(ii)** **finding x=39 and y=13** **The numbers are 13 and 39**	**Each step carries** $\frac{1}{2}$ **mark**
5.	**Put** $\frac{1}{x} = u; \quad \frac{1}{y} = v$ **Reducing the given equations into linear equation** **Solving equations in terms of u and v** **Finding x and y**	$\frac{1}{2} + \frac{1}{2}$ **2** **1**

6.	**Let the present age of father and son be x years and y years respectively** **x-3y=10----------(i)** **x-7y=-30----------(ii)** **solving for x and y** **Father's age=40 years** **Son's age=10 years**	 **1** **1** **1** $\frac{1}{2}$ $\frac{1}{2}$
7.	**1st line** **2nd line** **Solution** **Area**	**Each step carries 1 mark**
	SET B	
	Ans.5 **Let the ten's and the unit's digit in the first number be x and y respectively** **x+y=6----------(i)** **x-y=2 ----------(ii)** **or y-x=2 ----------(iii)** **By solving (i) and (ii) x=4 and y= 2** **By solving (i) and (iii) x=2 and y= 4** **The numbers are 42 and 24 .**	 **1** $\frac{1}{2}+\frac{1}{2}$ $\frac{1}{2}+\frac{1}{2}$ **1**
	SET C	
	Ans.7 **Let the speed of the cars at places A and B be x km/hr and y km/hr respectively** **x-y=10----------(i)** **x+y=100----------(ii)** **Soling (i) and (ii) x =55 and y=45** **The speed of the car at place A=55 km/hr** **The speed of the car at place B=45 km/hr**	 **1** **1** **1** $\frac{1}{2}$ $\frac{1}{2}$