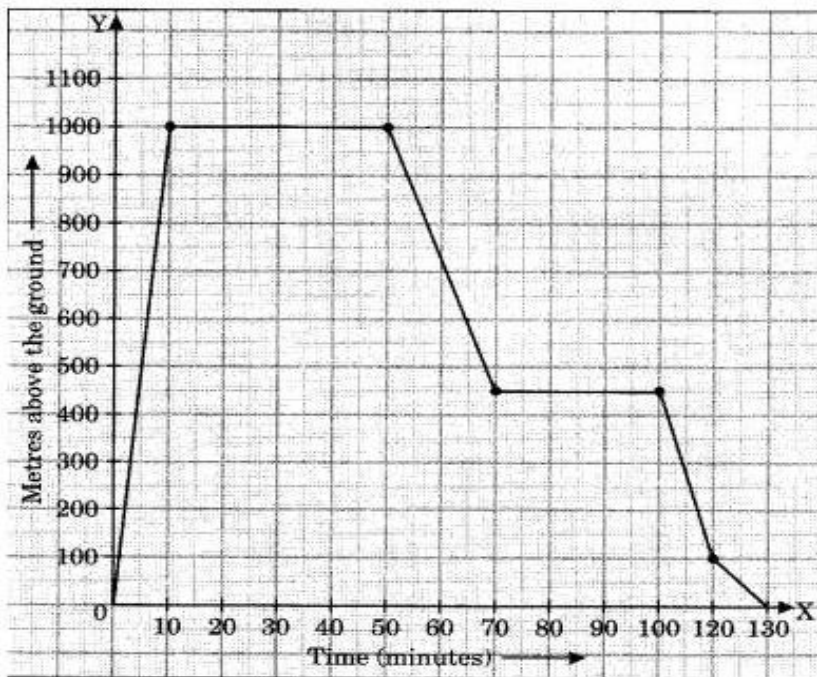


Class Test on Introduction of graph (Class 8)

Full Marks: 15

Q. No	Choose the correct option.	Marks																
1	Which of the following points lie on the x-axis? (a) (0,9) (b) (3,2) (c) (- 3, 0) (d) (-1, - 2)	1																
2	The abscissa of every point on y-axis is (a) 1 (b) 0 (c) Any natural number (d) – 1	1																
3	Which among the following are the coordinates of the point whose ordinate is -5, abscissa is -12? (a) (- 12,5) (b) (5,12) (c) (-12, - 5) (d) (5, - 12)	1																
4	State the quadrant in which (8, - 12) lies (a) II (b) I (c) IV (d) III	1																
5	If $(2a, 5) = (10, b)$, then the values of a and b are (a) (5,5) (b) (2,5) (c) (10,2) (d) (2,10)	1																
6	A graph that displays data that changes continuously over periods of time is called: (a) Bar graph (b) Line graph (c) Pie chart (d) Histogram	1																
7	The coordinate of a point at a distance of 5 units from the x-axis and 2 units from the y-axis is (a) (5,5) (b) (5,2) (c) (2,5) (d) (2,2)	1																
CASE STUDY:																		
8	Manali is a high-altitude Himalayan resort town in India's northern Himachal Pradesh state. Set on the Beas River, it is a gateway for skiing in the Solang Valley and trekking in Parvati Valley. It's also a jumping-off point for paragliding, rafting and mountaineering in the Pir Panjal mountains, home to 4000m high Rohtang Pass. Hitesh planned a trip with his friends from Delhi to Manali. The given graph shows the flight of an aeroplane.  <table><caption>Data points from the flight graph</caption><thead><tr><th>Time (minutes)</th><th>Altitude (metres above ground)</th></tr></thead><tbody><tr><td>0</td><td>0</td></tr><tr><td>10</td><td>1000</td></tr><tr><td>50</td><td>1000</td></tr><tr><td>70</td><td>450</td></tr><tr><td>100</td><td>450</td></tr><tr><td>120</td><td>100</td></tr><tr><td>130</td><td>0</td></tr></tbody></table>	Time (minutes)	Altitude (metres above ground)	0	0	10	1000	50	1000	70	450	100	450	120	100	130	0	3
Time (minutes)	Altitude (metres above ground)																	
0	0																	
10	1000																	
50	1000																	
70	450																	
100	450																	
120	100																	
130	0																	

	i How long was the plane in level flight? ii What was the speed of the aero plane while rising? iii How long did the whole flight take?																			
	Answer the following question.																			
9	The number of days a city received a rainfall in different years. <table><tr><td>Year</td><td>2001</td><td>2002</td><td>2003</td><td>2004</td><td>2005</td><td>2006</td><td>2007</td><td>2008</td></tr><tr><td>Days</td><td>10</td><td>15</td><td>20</td><td>25</td><td>30</td><td>35</td><td>40</td><td>45</td></tr></table> Draw the graph for the above given table of values with suitable scales on the axes. Is it a linear graph?	Year	2001	2002	2003	2004	2005	2006	2007	2008	Days	10	15	20	25	30	35	40	45	5
Year	2001	2002	2003	2004	2005	2006	2007	2008												
Days	10	15	20	25	30	35	40	45												
