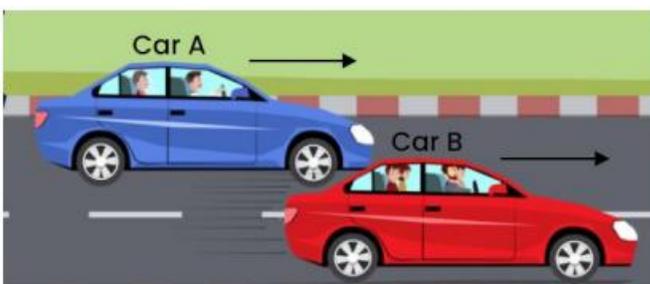


**INDIAN SCHOOL AL WADI AL KABIR**  
**Class VIII, Mathematics**  
**WORKSHEET (2025-26)**  
**INTRODUCTION TO GRAPH**

**Multiple Choice Questions**

Q.1.	A point which lies on both the axis is:							
	A	(0,0)	B	(1,1)	C	(0,1)	D	(1,0)
Q.2.	If Y- co-ordinate of a point is zero, then this point always lies:							
	A	X-axis	B	Y-axis	C	Origin	D	Both X & Y axis
Q.3.	Find the perpendicular distance of the point A (5,8) from the Y – axis.							
	A	0 units	B	3 units	C	5 units	D	8 units
Q.4.	Which of the following points lie on the X -axis?							
	A	(1,1)	B	(0,4)	C	(5,0)	D	(4,5)
Q.5.	On joining points (0,0), (0,3), (3,3) and (3,0) we obtain a:							
	A	Square	B	Rectangle	C	Triangle	D	Parallelogram
Q.6.	Which of the following points lie on the Y – axis?							
	A	(1,1)	B	(0,2)	C	(7,0)	D	(4,5)
Q.7.	If $(3a, 7) = (12, b)$ , then the values of a and b are							
	A	(4,7)	B	(7,4)	C	(12,7)	D	(0,0)
Q.8.	The coordinate of a point at a distance of 4 units from the X – axis and 6 units from the Y – axis is:							
	A	(4,6)	B	(6,6)	C	(2,3)	D	(6,4)
<b>LONG ANSWER QUESTIONS:</b>								
Q.9	Plot the following points on a graph sheet. P(2,4), Q(3,4), R(5,4) and S(9,4) and verify if they lie on a line.							
Q.10	Plot the following points on a graph sheet. G (5,4), H (7,4), I (7,6) and J (5,6).							
Q.11	Draw the line passing through (1,6) and (3,2). Find the coordinates of the points at which this line meets the X – axis and Y – axis.							

<p>Q.12</p>	<p>In the graph given alongside, a children park has been exhibited. Study the graph and answer the following questions.</p> <ol style="list-style-type: none"> <li>What can be found at             <ol style="list-style-type: none"> <li>(5,0)</li> <li>(2,1)</li> <li>(7,4)</li> <li>(2,8)</li> <li>(3.5,8)</li> </ol> </li> <li>What are the coordinates of the positions of car park, seesaw, bench 1 and toilet?</li> </ol>	
<p>Q.13</p>	<p>From the graph given here, answer the questions given below.</p> <ol style="list-style-type: none"> <li>How many magazines were sold on Monday?</li> <li>How many magazines were sold on Wednesday?</li> <li>On which day was the highest number of magazines sold?</li> <li>On which day was the least number of magazines sold?</li> </ol>	
<p>Q.14</p>	<p>The adjacent graph shows the velocity time graph for car A and car B. Read the graph and answer the following questions.</p>  <ol style="list-style-type: none"> <li>What is the difference in the speed of car A and car B at 7.00 a.m?</li> <li>At what time is the speed of car A maximum?</li> <li>What is car A's minimum speed?</li> <li>What is the difference in the speed of car B at 7.a.m and 9.a.m?</li> </ol>	

<p>Q.15</p>	<p>Draw the graphs for the following tables of values, with suitable scale on the axis.</p> <table border="1" data-bbox="375 279 1377 369"> <tr> <td>Time (in hours)</td> <td>6 a.m</td> <td>7 a.m</td> <td>8 a.m</td> <td>9 a.m</td> </tr> <tr> <td>Distance (in km)</td> <td>40</td> <td>80</td> <td>120</td> <td>160</td> </tr> </table> <p>Answer the following questions on the basis of graph.</p> <ol style="list-style-type: none"> <li>How far had the car travelled at 6.30 a.m.?</li> <li>At what time of the day had the car travelled 140 km?</li> </ol>	Time (in hours)	6 a.m	7 a.m	8 a.m	9 a.m	Distance (in km)	40	80	120	160				
Time (in hours)	6 a.m	7 a.m	8 a.m	9 a.m											
Distance (in km)	40	80	120	160											
<p>Q.16</p>	<p>The following table shows the amount of rice grown by a farmer in different years.</p> <table border="1" data-bbox="393 663 1359 779"> <tr> <td>Year</td> <td>2000</td> <td>2001</td> <td>2002</td> <td>2003</td> <td>2004</td> <td>2005</td> </tr> <tr> <td>Rice (in Quintal)</td> <td>200</td> <td>180</td> <td>240</td> <td>260</td> <td>200</td> <td>270</td> </tr> </table> <p>Plot a graph to illustrate this information.</p> <p>Answer the following questions on the basis of graph.</p> <ol style="list-style-type: none"> <li>In which year was the maximum rice produced by the farmer?</li> <li>In which year was the least rice produced?</li> <li>What was the total rice produced during the years 2000 to 2005?</li> </ol>	Year	2000	2001	2002	2003	2004	2005	Rice (in Quintal)	200	180	240	260	200	270
Year	2000	2001	2002	2003	2004	2005									
Rice (in Quintal)	200	180	240	260	200	270									
<p>Q.17</p>	<p>Draw a graph for the following information:</p> <table border="1" data-bbox="240 1136 912 1262"> <tr> <td>Deposit in ₹</td> <td>1000</td> <td>2000</td> <td>3000</td> <td>4000</td> </tr> <tr> <td>S.I in ₹</td> <td>90</td> <td>180</td> <td>270</td> <td>360</td> </tr> </table> <p>Using the graph answer the following questions.</p> <ol style="list-style-type: none"> <li>What is the simple interest on depositing Rs 3500?</li> <li>What amount should be deposited to earn Rs 225 as simple interest?</li> </ol>	Deposit in ₹	1000	2000	3000	4000	S.I in ₹	90	180	270	360				
Deposit in ₹	1000	2000	3000	4000											
S.I in ₹	90	180	270	360											
<p>Q.18</p>	<p>Plot the points (2, 3) and (3, 2). Draw a line passing through these points. Find the coordinates of the points at which this line meets the X-axis and Y-axis.</p>														

## ANSWERS

<b>1.</b>	A	<b>2.</b>	A	<b>3.</b>	C	<b>4.</b>	C	<b>5.</b>	A
<b>6.</b>	B	<b>7.</b>	A	<b>8.</b>	D	<b>9.</b>	On graph	<b>10.</b>	On graph
<b>11.</b>	The line meets the Y-axis at (0, 8) The line meets the X-axis at (4, 0)								
<b>12.</b>	a. I. Entrance      ii. Cafe      iii. Slide      iv. Pond      v. Bench – 2 b. car park (9,1);      seesaw (6,6);      bench 1 (2,6.5);      toilet (7,9)								
<b>13.</b>	a. 20		b. 45		c. Thursday		d. Friday		
<b>14.</b>	a. 15km/hr		b. 8.15 am		c. 32 km/hr		d. 40 km/hr		
<b>15.</b>	1. Distance travelled at 6.30 a.m. = 60 km 2. The car travelled 140 km at 8.30 a.m.								
<b>16.</b>	1. Maximum rice produced: 2005 2. Least rice produced: 2001 3. Total rice produced: 1350 quintals								
<b>17.</b>	a) Simple interest on ₹3500 = ₹315 b) Amount to be deposited for ₹225 interest = ₹2500								
<b>18.</b>	X-axis at (5, 0) and the Y - axis at (0, 5)								