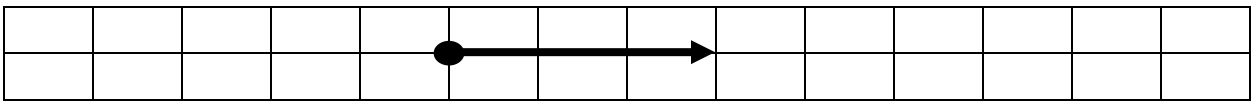
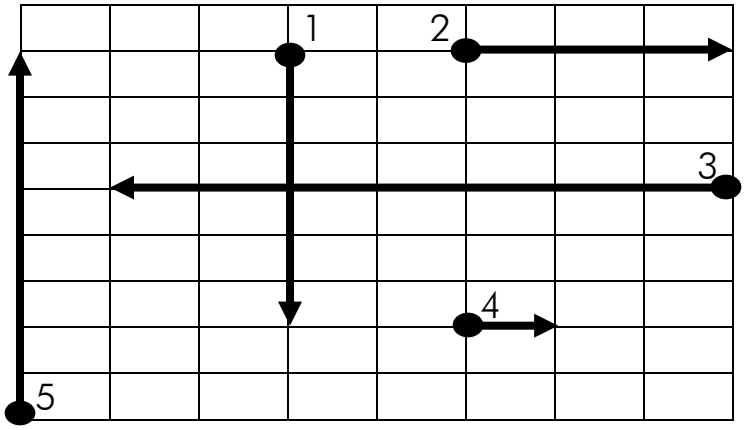
Force

Sometimes force is shown as a **vector**. The dot shows where the force begins. The length shows the amount of force. The arrow shows the direction of the force. This vector shows a force of 3 n to the right.

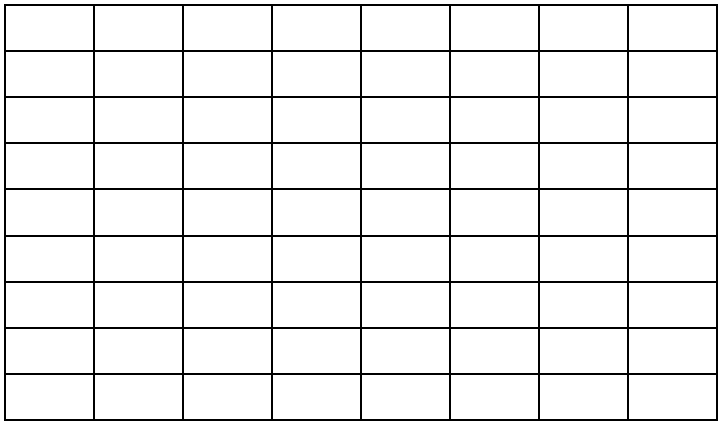


Fill in the chart with the information about the vectors below. Each square is 1 n.



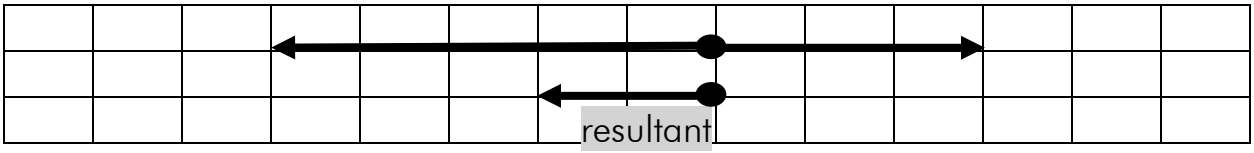
	Force	Direction
1		
2		
3		
4		
5		

Draw the following vectors on the grid below. 1) 7 n right; 2) 3 n up; 3) 4 n down; 4) 6 n left; 5) 1 n down.

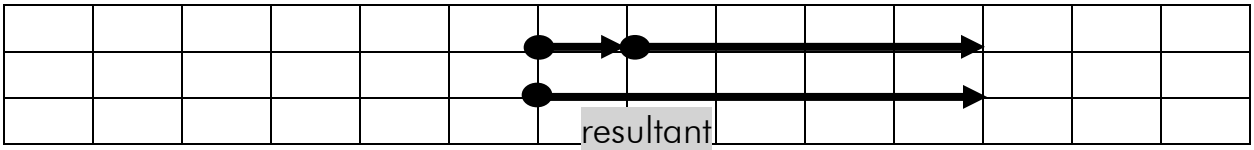


(continued on next page)

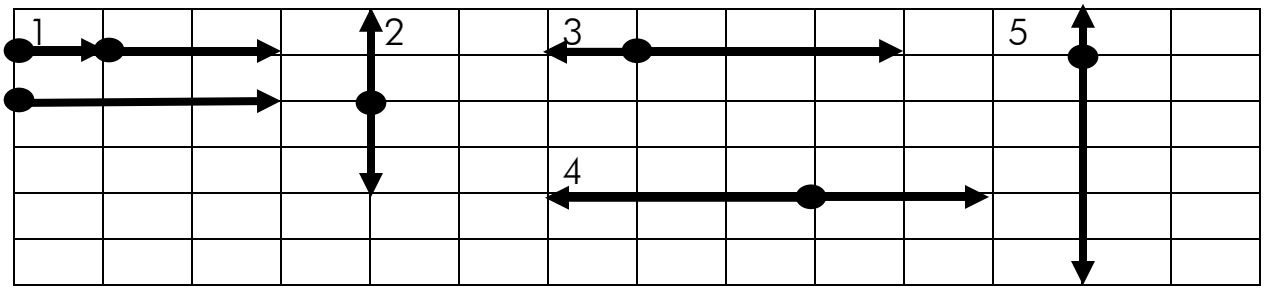
Here are two more examples of vectors showing force. The first chart shows two forces acting in opposite directions. One force is 5 n to the left. One force is 3 n to the right. The resultant force is 2 n to the left as shown.



The second chart shows two forces acting in the same direction. One force is 1 n to the right. One force is 4 n to the right. The resultant force is 5 n to the right as shown.



Draw the resultant vector for each set of vectors below. Then fill in the chart for each set. The first one is done for you.



	Original forces	Resultant force
1	1 n right, 2 n right	3 n right
2		
3		
4		
5		