

**Route 1**

North	South	East	West
14.0	50.0	16.0	4.0
1.0	20.0	16.0	4.0
		16.0	
		6.0	
15.0	-70.0	54.0	-8.0
	-55.0		46.0

**60.0 yds. South  
of start**

**50.2 yds. East  
of start**

**Route 2**

North	South	East
50.0	120.0	26.0
20.0	53.0	
46.0		
2.0		
118.0	-173.0	26.0
	-55.0	

**60.0 yds. South  
of start**

**50.2**

Input your distances in **meters** into the shaded chart (**enter distances as positive values**). The spreadsheet makes South and West values negative and calculates the totals (in meters) and final destination relative to the starting point (in yards). Negative values mean either South or West of start. Suggestion: pick distances that make the destination end up on a whole yard-line marker.

**Route 4**

North	South	East	West
12.0	2.0	50.0	27.0
16.0		45.0	26.0
12.0		4.0	
8.0			
48.0	-2.0	99.0	-53.0
	46.0		46.0

**50.2 yds. North  
of start**

**50.2 yds. East  
of start**

**Route 5**

North	South	East
61.0	100.0	17.5
5.0	11.0	17.5
	10.0	17.5
		9.5
66.0	-121.0	62.0
	-55.0	

**60.0 yds. South  
of start**

**25.1**

**Route 7**

North	South	East	West
70.0	36.5	18.0	21.0
9.0		28.0	6.5
3.5		3.0	
		1.5	
82.5	-36.5	50.5	-27.5
	46.0		23.0

**50.2 yds. North  
of start**

**25.1 yds. East  
of start**

**Route 8**

North	South	East
99.0	40.0	31.0
	40.0	8.0
	19.0	1.0
99.0	-99.0	40.0
	0.0	

**0.0 yds. North  
of start**

**25.1**

West	Route 3			
	North	South	East	West
20.0	50.0	26.0	1.0	17.0
46.0	22.0	2.0	4.0	17.0
6.0	2.0			17.0
-72.0	74.0	-28.0	5.0	-51.0
-46.0		46.0		-46.0

**yds. West of start**                     
 **50.2 yds. North of start**                     
 **50.2 yds. West of start**

**The "Fudge" Factor**

It should be noted that an official football field is actually 53 yards wide; however, there's a lot of variance in how fields are actually laid out. Ours, for example, is actually closer to 52 yards. This combined with the relative inaccuracies of student measurements as well as chalk striping errors means that there must be some "flexibility" in judging the final destination.

West	Route 6			
	North	South	East	West
39.0	40.0	10.0	35.0	26.0
	12.0	53.0		9.0
	99.0	40.0		
		2.0		
-39.0	151.0	-105.0	35.0	-35.0
23.0		46.0		0.0

**yds. East of start**                     
 **50.2 yds. North of start**                     
 **0.0 yds. East of start**

West
18.0
41.0
4.0
-63.0
-23.0

**yds. West of start**