

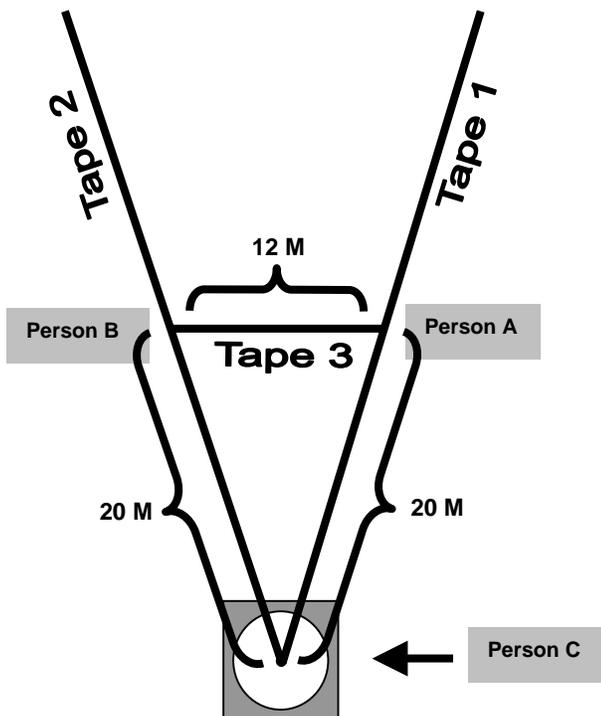


Setting up the 34.92 Degree Sector

A 34.92 degree angle is the angle between the two equal sides of an isosceles triangle that has the unequal side 0.6 times the length of the equal sides. It can be mathematically expressed as $2\arcsin(0.30)$. Illustrated below is a typical layout for the shot circle. Measure out from the center of the circle with two tapes. Pull the two tapes (tape 1 & 2) tightly and separate them by 12 meters at the 20 meter mark on each tape. It will take three people and three tapes to do this. **Person C** holds the two tapes (1 & 2) at zero, which will locate the sector lines in the center of the circle. **Person B** pulls tightly on one of the sector line tapes (tape 2) at 20 meters and holds the zero mark of the cross measuring tape (tape 3). **Person A** pulls on one of the sector line tapes (tape 1) at the 20 meter mark and holds the crossing tape at 12 meters. The sector lines are centered on the stop board and permanent pins or stakes are placed at the ends of the sector lines. Sector lines can be extended if longer throws that the ends of these sector lines are anticipated.

Sectors for the discus and hammer are set up in similar manner, keeping the ratio of cross measurement length to sector line length at 0.6. For example, one might use sector lines of 60 meters and a cross measurement of 36 meters for the discus and 70-meter sector lines and a cross measurement of 42 meters for the hammer.

Sector Layout 34.92 Degrees



Different Distances used to measure a 34.92 sector		
Tape 1 (M)	Tape 2(M)	Tape 3 (M)
5	5	3
10	10	6
15	15	9
20	20	12
25	25	15
50	50	30
75	75	45
100	100	60

Full diagram is found on following page

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