Nederlandse Wiskunde Olympiade voor Bedrijven



Friday, 26 January 2018

- Available time: 20 minutes.
- For this "uitsmijter" only an answer is required, no calculation or proof. A correct and complete answer is worth 10 points. For an answer that is not complete or not completely correct you may also get some points.
- Formula sheets and calculators are not allowed. You can only use a pen, compass, ruler or set square

	rse your mental skills.	a. You can only use a pen, c	ionipass, raier or see square
 Good luck 	!		
	For the contest managers:	Score first round:	Score uitsmijter:
Name:			
Company:			
Uitsmijter			
other players. of a tie each p	In every match the winner is	is awarded 1 point and. At the end of the tou	ys a match against each of the d the loser 0 points, and in case irnament a ranking is published d.
· /			ores of the players together, but

- accidentally he skips one player. He calculates a total number of 190 points. Determine all possible values of n for which this may happen.
- (b) At a different tournament it turns out that every player gained exactly half of his points in matches against the ten players that end up with the lowest total scores. (In particular, each of the ten players with the lowest total scores has gained exactly half of his points in matches against the other nine of the ten.) Determine all possible values of n for which this may happen.

Answer:		
(a)		
(b)		