

# Nederlandse Wiskunde Olympiade voor Bedrijven



Friday, 31 January 2025

- Available time: 20 minutes.
- For this "uitsmijter" only an answer is required, no calculation or proof.
- The answer is a list of one or more integers. In total 10 points can be achieved. An incomplete list of integers will also be awarded points. Points are deducted for incorrect integers.
- Calculators, formula sheets and electronic devices are not allowed. You can only use pen and paper and of course your mental skills.
- Good luck!

For the contest managers: Score first round: Score uitsmijter:

Name:

Company/team:

## Uitsmijter

Determine all (not necessarily positive) integers  $n$  such that  $14n^2 + 37n + 46$  is divisible by  $5n + 12$ .

Answer: