Mathematics

Delprov C

Elevhäfte

1a

Elevens namn och klass/grupp

Skolverket

Instructions – Part C

Time for the test   60 minutes for Part C.

Aids   Allowed aids on Part C are digital devices, formula sheet and ruler.

Tasks   This part consists of one large task. In your work it is required of you to
- show your solutions
- explain/motivate your thinking
- draw figures when required.

Grading limits   The test (Part A–D) gives a total maximum of 78 points.

Limit for test grade
E: At least 21 points.
D: At least 34 points of which at least 10 points at level C or higher.
C: At least 44 points of which at least 19 points at level C or higher.
B: At least 54 points of which at least 5 points at level A.
A: At least 61 points of which at least 9 points at level A.

Name: _____

Date of birth:_____

Secondary program:_____ Class: _____

Also write your name, date of birth, secondary program and class on the sheets you hand in.

Illustration: Jens Ahlbom

14. Distributing flyers

Oskar and Martin have got a two-week long job during their summer holidays. Their work is to distribute flyers. The flyers are delivered to Oskar's house on Monday morning. He starts to distribute them on Monday.

Martin is out of town, and can only work Tuesday, Wednesday and Thursday of the second week, for a total of about 20 hours.
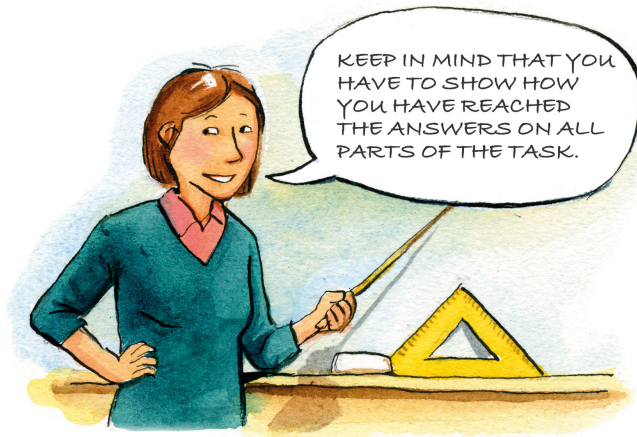
When they are working together, Oskar notices that Martin works faster than him. Martin distributes an average of 200 flyers per hour, and Oskar distributes an average of 150 flyers per hour. They finish on Thursday afternoon.

On Friday morning, Oscar collects their wages of SEK 5 000 and starts thinking of how much money he should give to Martin.

- Make up *two different proposals* for how the money should be distributed between Oskar and Martin.

  In order to solve this problem, you must decide certain things yourself. Motivate your answer through reasoning and calculations, explaining why you have distributed the money the way you have.

  (3/5/2)

KEEP IN MIND THAT YOU HAVE TO SHOW HOW YOU HAVE REACHED THE ANSWERS ON ALL PARTS OF THE TASK.

> **When assessing your work, the teacher will consider**
> - what mathematical knowledge you have shown and how well you have carried out the task
> - how well you have explained your work and given reasons for your conclusions
> - how well you have presented your work

PRIM
gruppen