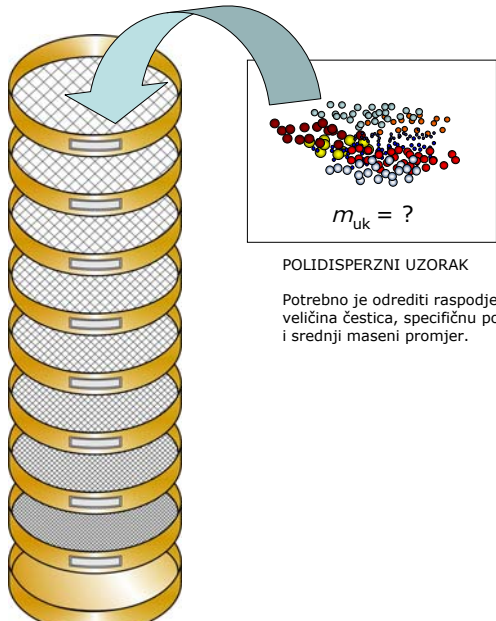


## Seminar 01 SJO

Prikaz načina rješavanja zadataka 3 i 4

**ZADATAK 3**

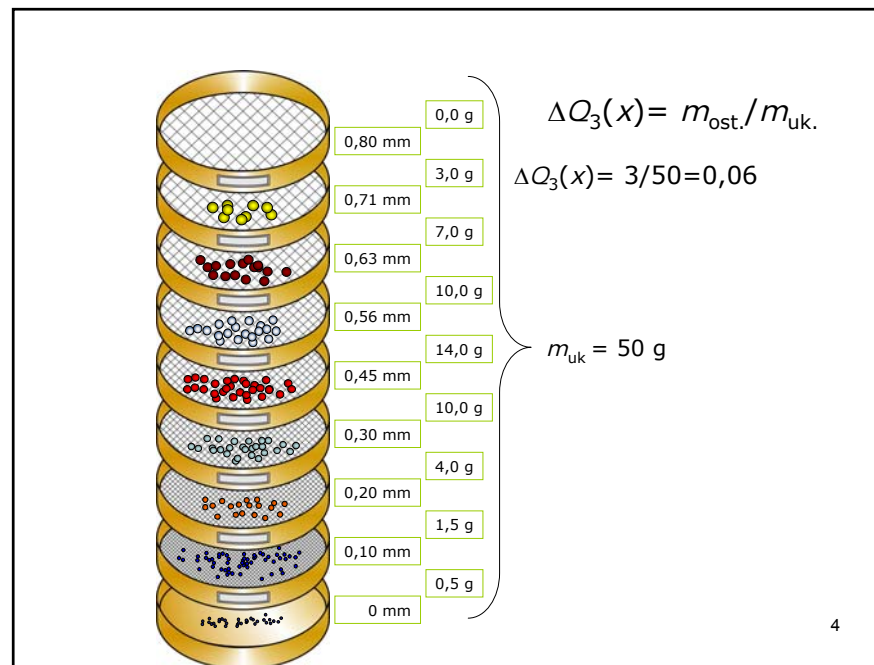
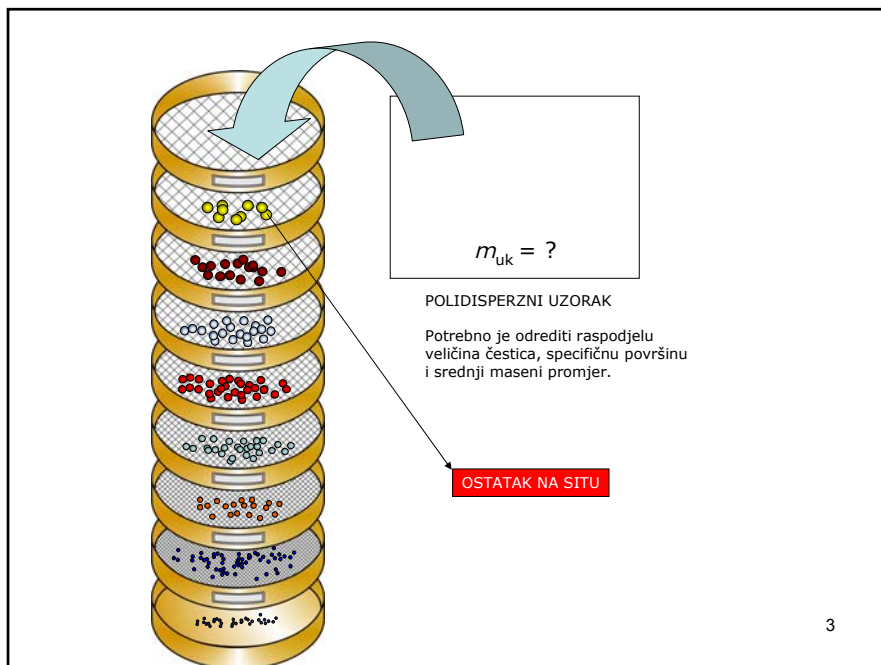


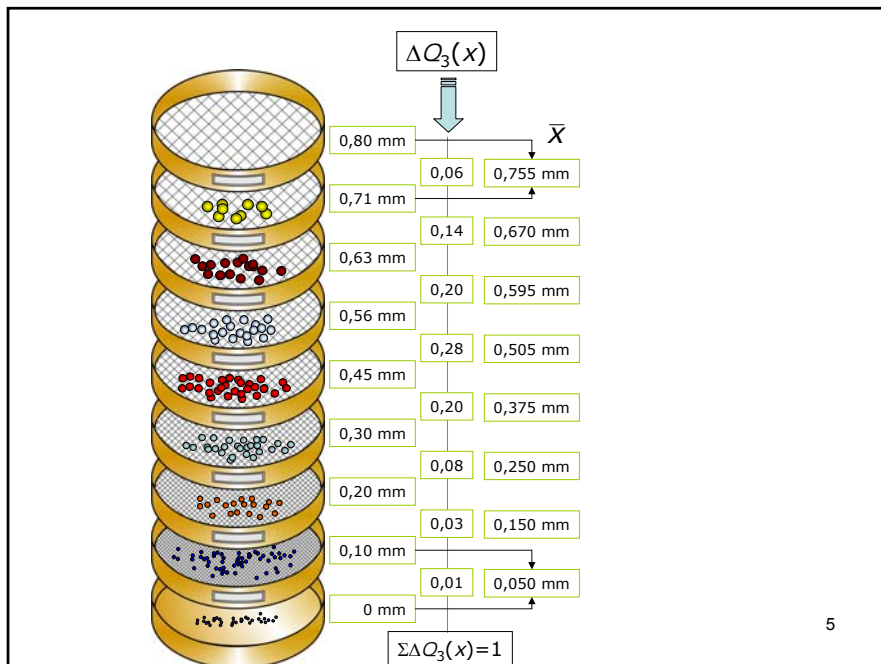
The diagram shows a vertical column of a sedimentation apparatus. It consists of a stack of 10 horizontal cylindrical sections, each with a mesh top and a metal band. A light blue arrow points from the top of the column to a rectangular box containing a cluster of particles of various sizes and colors (red, yellow, grey, black). Below the particles in the box is the text  $m_{uk} = ?$ .

POLIDISPERZNI UZORAK

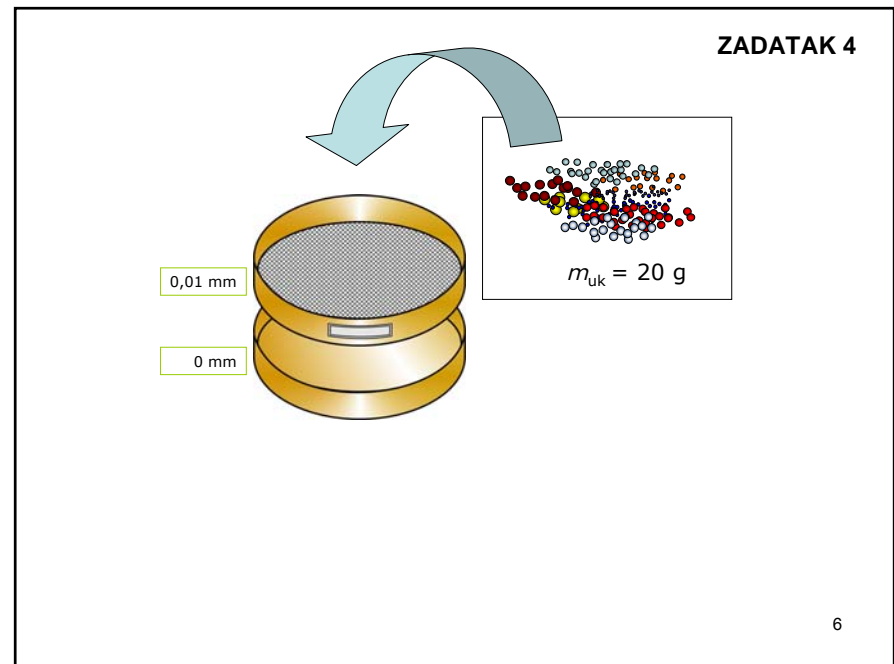
Potrebno je odrediti raspodjelu veličina čestica, specifičnu površinu i srednji maseni promjer.

2

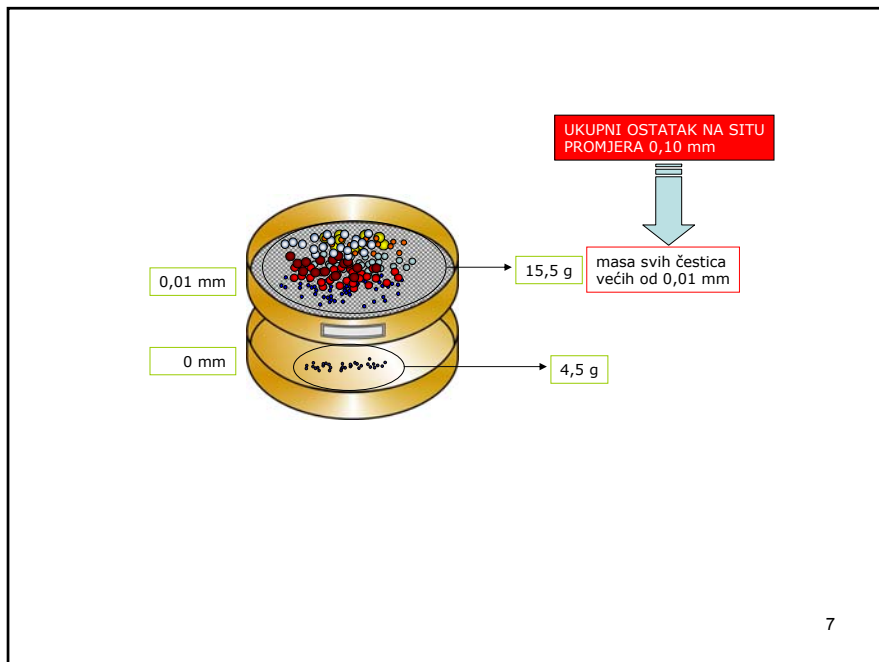




5



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1. način – oduzimanjem masa izračuna se udio u pojedinom veličinskom intervalu  $\Delta Q_3(x)$

$(20-15,5)/20=0,225$       udio čestica između 0 i 0,01 mm

$(15,5-13,65)/20=0,093$       udio čestica između 0,01 i 0,02 mm

2. način – iz masa se izračuna kumulativni udio čestica manjih od  $x$ ,  $Q_3(x)$

$(20-15,5)/20=0,225$       udio čestica manjih od 0,01 mm

$(20-13,65)/20=0,318$       udio čestica manjih od 0,02 mm

$(20-11,15)/20=0,443$       udio čestica manjih od 0,03 mm

$Q_3(x_2) - Q_3(x_1) = \Delta Q_3(x)$

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