Question: A particle analysis test was conducted on a dry soil. The total mass used in test was 500 grams. All 500 grams are greater than 9.5mm. The total mass of particles greater than 0.075mm was 220 grams. Determine the percentage of coarse-grained and fine-grained soil particles. Solution:

$$S_{CG} = \frac{Mals > 0.075 \text{mm}}{\text{thet man}} \times 10000$$

$$= \frac{220}{500} \times 100 = 44\%, \quad \text{ANS}.$$

$$F6 \% = \frac{\text{man} < 0.075 \text{mp}}{\text{the mas}} \%$$

$$Solver = 0 \frac{500 - 220}{500} \% \text{ loo inking (https://civiltninking.com)}$$

$$= 56 \% \text{ ANS.}$$

Solved by Civil Thinking (https://civilthinking.com)

This problem was solved by Civil Thinking (https://civilthinking.com)

If you need solutions of **Soil Mechanics/ Geotech questions** or any other **Civil Engineering** subject, contact us at:

solutions@civilthinking.com

Or submit your problem directly here:

https://civilthinking.com/getproblemsolutions

Other Subjects We Cover:

- ✓ Structural Analysis
- Fluid Mechanics
- ☑ Geotechnical Engineering
- ✓ Transportation Engineering
- ✓ Construction Management
- Finite Element Analysis (FEA)
- ☑ Engineering Software (ANSYS, ETABS, MATLAB, Revit, etc)

NOTE:

The solution provided in this document is the intellectual property of **Civil Thinking** and is protected by copyright. Any reproduction, distribution, or publication of this content, in whole or in part, is strictly prohibited without prior written permission from https://civilthinking.com.