From the results of a sieve analysis, shown below, determine:

(a) the percent finer than each sieve and plot a grain–size distribution curve,
(b) \(D_{10}, D_{30}, D_{60}\) from the grain–size distribution curve,
(c) the uniformity coefficient, \(C_u\), and
(d) the coefficient of gradation, \(C_c\).
For the particle-size distribution curve we just used, the values of $D_{10}$, $D_{30}$, and $D_{60}$ are:

$D_{10} = 0.15 \text{ mm}$

$D_{30} = 0.17 \text{ mm}$

$D_{60} = 0.28 \text{ mm}$

$C_v = \frac{D_{60}}{D_{10}} = \frac{0.28 \text{ mm}}{0.15 \text{ mm}} = 1.9$

$C_r = \frac{D_{30}^2}{D_{10} \times D_{60}} = \frac{(0.17 \text{ mm})^2}{0.28 \text{ mm} \times 0.15 \text{ mm}} = 0.69$

Any Questions?