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## Chapter 2

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$$2.1. C_u = \frac{D_{60}}{D_{30}} = \frac{0.42}{0.16} = 2.625 = 2.63; C_c = \frac{D_{30}^2 - D_{10}^2}{(D_{60} - D_{30})(D_{30})} = \frac{0.21^2 - 0.07^2}{(0.42 - 0.16)(0.16)} = 0.55 = 0.56$$

$$2.2. C_u = \frac{D_{60}}{D_{30}} = \frac{0.81}{0.27} = 3.0; C_c = \frac{D_{30}^2 - D_{10}^2}{(D_{60} - D_{30})(D_{30})} = \frac{0.41^2 - 0.17^2}{(0.81 - 0.27)(0.27)} = 0.768 = 0.77$$

2.3 a.

Sieve no.	Mass of soil retained on each sieve (g)	Percent retained on each sieve	Percent finer
4	28	4.51	95.46
10	42	6.61	93.35
20	48	7.78	92.22
40	128	20.35	79.65
60	221	35.82	64.18
100	36	5.80	94.20
200	49	7.89	92.11
Pan	24	3.89	96.11
Σ 617 g			



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