

- (a) Since the possible values of settlement for Pier 1 overlap partially with those of Pier 2, it is possible that both Piers will have the same settlement. Hence, the minimum differential settlement is zero.

The maximum differential settlement will happen when the settlement of Pier 2 is 10 cm and that of Pier 1 is 2 cm, which yields a differential settlement of 8 cm.

Hence, the sample space of the differential settlement is zero to 8 cm.

- (b) If the differential settlement is assumed to be equally likely between 0 and 8 cm, the probability that it will be between 3 and 5 cm is equal to

$$P = \frac{5 - 3}{8 - 0} = \frac{2}{8} = 0.25$$

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