

1 The normal distribution — Part 2

— Answers

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Work through these after you have tried the questions yourself.

2.1 a symmetric bell shape, with most values near the mean and fewer far from it.

2.2 about 68% within 1 standard deviation, 95% within 2, and 99.7% within 3.

2.3 170 ± 8 , i.e. from 162 to 178 cm.

2.4 $170 \pm 2(8) = 170 \pm 16$, i.e. from 154 to 186 cm.

2.5 when the data are not normal (for example, skewed data).