



- 2 In a certain country, the heights of the adult population are normally distributed with mean 1.64 m and standard deviation 0.25 m.
- (a) Find the probability that an adult chosen at random from this country will have height greater than 1.93 m. [3]

[illegible]



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- This image shows a full page of primary-ruled paper. It features multiple sets of horizontal dotted lines spaced evenly down the page. A large, light gray watermark is oriented diagonally from the bottom left towards the top right, containing the text "pastpaperpenquin.com". The background is white, and there are no other markings or text present.



3 In Molimba, the heights, in cm, of adult males are normally distributed with mean 176 cm and standard deviation 4.8 cm.

(a) Find the probability that a randomly chosen adult male in Molimba has a height greater than 170 cm. [3]

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60% of adult males in Molimba have a height between 170 cm and k cm, where k is greater than 170.

(b) Find the value of k , giving your answer correct to 1 decimal place. [4]

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Handwriting practice lines consisting of 25 horizontal dotted lines.

- 2 The lengths of the tails of adult raccoons of a certain species are normally distributed with mean 28 cm and standard deviation 3.3 cm.

- (a) Find the probability that a randomly chosen adult raccoon of this species has a tail length between 23 cm and 35 cm. [4]

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The masses of adult raccoons of this species are normally distributed with mean 8.5 kg and standard deviation σ kg. 75% of adult raccoons of this species have mass greater than 7.6 kg.

- (b) Find the value of σ . [3]

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- (a) Find the percentage of oranges that are classified as large. [3]

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- [5]

[illegible]



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- This image shows a blank sheet of white paper designed for handwriting practice. It features numerous horizontal dotted lines spaced evenly down the page. A prominent, light gray watermark with the text "Dastpaperpenquin.com" is oriented diagonally from the bottom-left towards the top-right, spanning most of the page's width and height. The watermark is semi-transparent, allowing the dotted lines to remain visible beneath it. There are no other markings, text, or illustrations on the page.