

(1) Cory cuts sixteen pieces of string for a project. The shortest piece of string is 28 cm in length and the longest piece is 88 cm in length. If the lengths of the sixteen pieces of string are written down, it forms an AS.

(a) Calculate the length of the 13th string in the sequence.

(b) Calculate the total length of all 16 pieces of string.

(2) Suné sells her handicrafts at a farm market, which lasts eight days. On the first day she makes R550 profit. The second day she makes R620 profit and on the third day R690 profit.

(a) If this pattern of her profit continues like this, calculate how much profit Suné makes on her last day of the market.

- (b) Calculate Suné's total profit for the eight days.

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- (3) Jason and Arno both work on a commission basis. Jason earns R4 750 in commission in the first month. Thereafter he earns R1 550 more each month than the previous month. Arno earns R6 850 in commission in his first month, but his monthly increase is less than that of Jason and remains constant.

- (a) Express Jason's commission as a sequence.

- (b) If Jason and Arno earn the same commission in month seven, calculate Arno's monthly increase in commission.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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