

You are investigating how tape is placed continuously around all edges of a rectangular photo frame, ensuring that every side of the frame is fully covered.

Stage number (n)	Length (L)	Width (W)
1	15	10
2	18	12
3	21	14
4	24	16

Predict the missing values for length and width and state the answers in the empty table given below.

(Criterion B - strand i)

Stage number (n)	Length (L)	Width (W)
1	15	10
2	18	12
3	21	14
4	24	16
5		
6		

Describe, in words, any two patterns that you observe in Width(W) in the above table.

(Criterion B - strand ii)

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State the general rule for the Width(W) in terms of n.

(Criterion B - strand ii and Criterion C-strand iii)

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Show the testing of the stated general rule for Width (W) in terms of n.

(Criterion B - strand iii)

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Verify the stated general rule for the Width (W) in terms of n.

(Criterion B - strand iii)

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You are investigating the total tape required for a rectangular photo frame on all its edges

Stage number (n)	Length (L)	Width (W)	Total tape required (T)
1	15	10	50
2	18	12	60
3	21	14	70
4	24	16	80

Predict the missing values for the costs and state the answers in the empty table given below.

(Criterion B - strand i)

Stage number (n)	Length (L)	Width (W)	Total tape required (T)
1	15	10	50
2	18	12	60
3	21	14	70
4	24	16	80
5			

Describe, in words, any two total tape required patterns that you observe in the above table.

(Criterion B - strand ii)

State the general rule for the Total tape required (T) in terms of n.

(Criterion B - strand ii and Criterion C-strand iii)

Show the testing of the stated general rule for the Total tape required (T) in terms of n.

(Criterion B - strand iii)

Verify the stated general rule for the Total tape required (T) in terms of n.

(Criterion B - strand iii)

Justify the stated general rule for the Total tape required (T) in terms of n.

(Criterion B - strand iii)