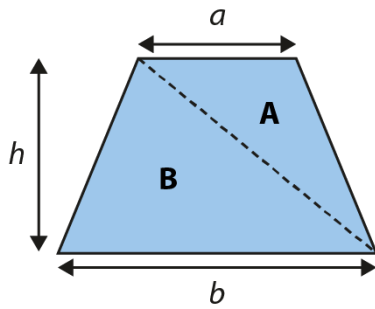**Example 2:** *Josh is deriving the formula for the area of a trapezium by thinking of the shape as split into two triangles:*

He comes up with the following formula: $(\frac{1}{2} \times a \times h) + (\frac{1}{2} \times b \times h)$

Rearrange the statements below to show what Josh's reasoning might have been.

Divide the trapezium into two triangles, A and B
Area of trapezium = $\frac{1}{2}(a + b)h$
Area of trapezium = $\frac{1}{2}(ah + bh)$.
The area of triangle B = $\frac{1}{2} \times b \times h$
Area of trapezium = $(\frac{1}{2} \times a \times h) + (\frac{1}{2} \times b \times h)$
The area of the trapezium = area of triangle A + area of triangle B
The area of triangle A = $\frac{1}{2} \times a \times h$