## Area of a trapezium



The diagram shows two identical trapezia connected along one edge.



Use the diagram to explain why the area of a trapezium is given by the formula:

 $A = \frac{1}{2} (a + b)h$ 

Amir and Whitney are finding the area of this trapezium.



a) Use each person's method to find the area of the trapezium.

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**b)** Which method do you prefer?





Amir's method









