Area of a trapezium and compound shapes

Task | Answers

Area of a trapezium

The area of a trapezium, A, is calculated using the following formula:

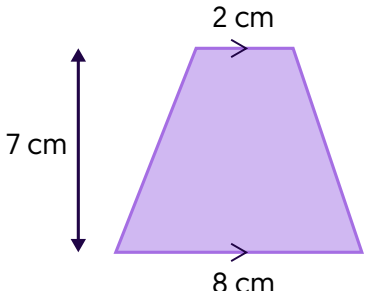
$$A = \frac{(a+b)}{2} \times h$$

Find the values of a, b and h which would be used in this formula for each of the following trapezia.

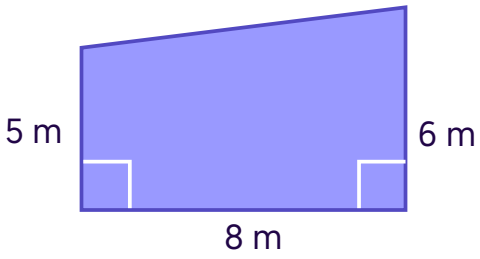
Use these values to find the area of each of the trapezia, indicating the units clearly.

Question 1 has been completed as an example.

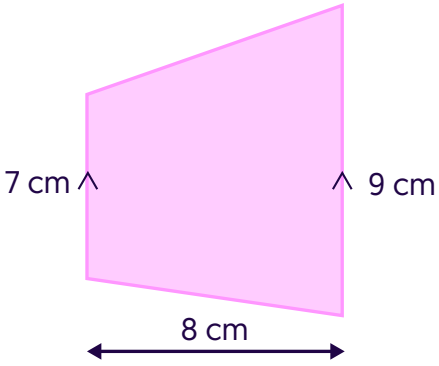
1. a + b = 2 + 8
   h = 7
   A = 35 cm^2



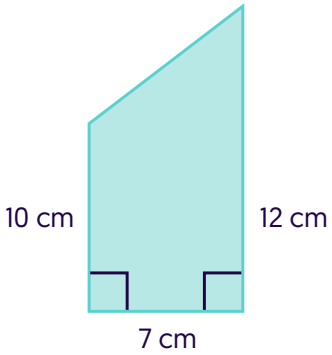
2. a + b = 5 + 6
   h = 8
   A = 44 m^2



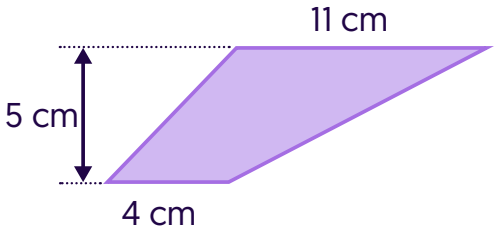
3. a + b = 7 + 9
   h = 8
   A = 64 cm^2



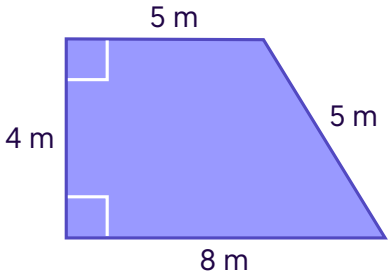
4. a + b = 10 + 12
   h = 7
   A = 77 cm²



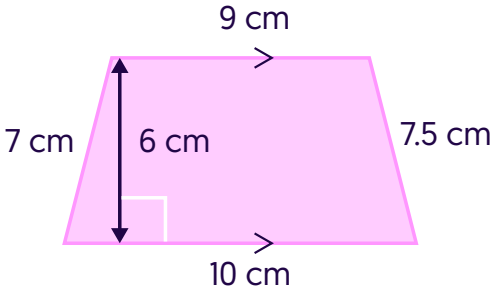
5. a + b = 11 + 4
   h = 5
   A = 37.5 cm²



6. a + b = 5 + 8
   h = 4
   A = 26 m²



7. a + b = 9 + 10
   h = 6
   A = 57 cm²



8. a + b = 4 + 7
   h = 3
   A = 16.5 cm²