MATHS

YEAR 6
MEASUREMENT

NC. Objective: To calculate the area of parallelograms and triangles.

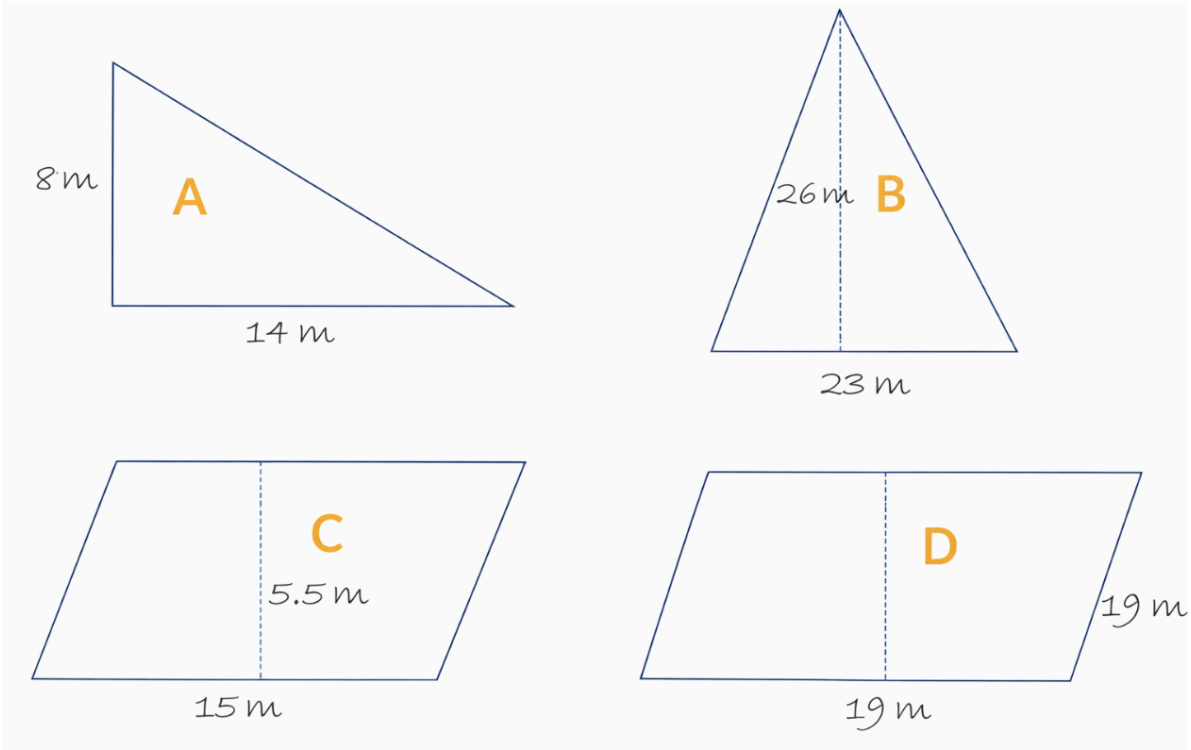
1. The gardens of Bohemia are being redesigned for the Spring Festival.

   Florizel has drawn several possible flowerbed designs.

   Each new flowerbed must not exceed 180m².

   a) Calculate the area of each design.
   b) Write the letter of each shape in the correct column of the table.

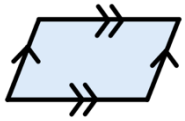


Area below 50m²	Area 50m²-180m²	Area over 180m²

2. Hermione plans a parallelogram-shaped herb garden. The base is 15m and the vertical height is 5.5m.

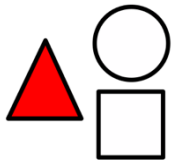
a) Calculate the area.
b) The gardener spreads fertiliser at 1kg per 10m². How many kilograms are needed?

3. A large parallelogram display in the Royal Court has a base of 19m and a height of 13m.



a) Find the area.
b) If paving costs £4.00 per m², how much will the paving cost in total?

4. A triangular stage is built for the Spring Festival. It has a base of 23m and a height of 26m.



a) Find the area of the stage.
b) If each 5m² needs 1 lantern, how many lanterns are required?

<u>CHALLENGE</u>

Design a new flowerbed that has an area of exactly 36m² and is either:
- a triangle, or
- a parallelogram.

Clearly label the base and height. Show your calculation to prove the area is 36m².