

MATHS
YEAR 6
MEASUREMENT

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

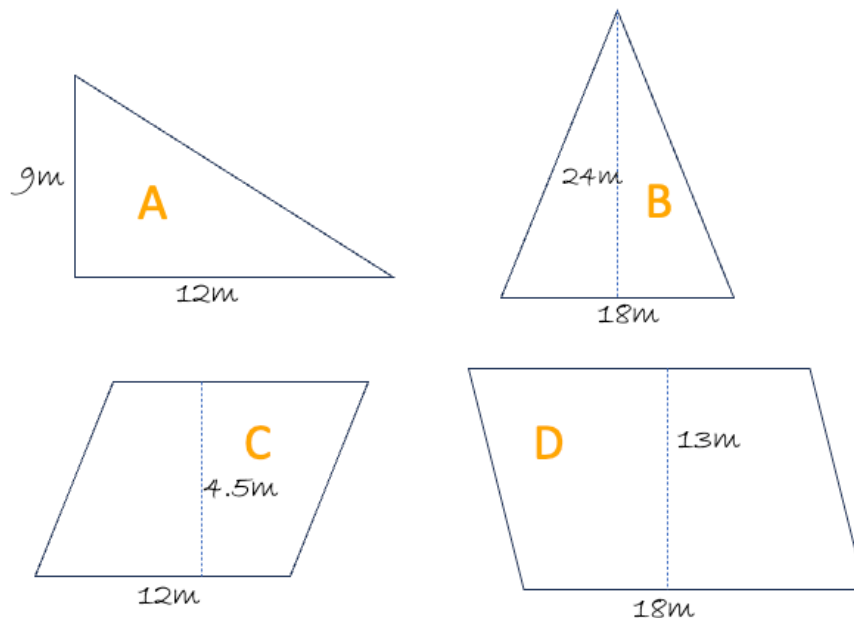


Kronborg Castle in Denmark is the inspiration for the setting of Shakespeare's *Hamlet*.

In this photograph, you can see the Royal Gardens of the castle.

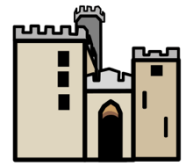
- Polonius is planning to build a new flowerbed in the Royal Gardens in preparation for the Spring Ball. Some of his sketches are below (not to scale). His new flowerbed cannot have an area that exceeds 200m^2 .

Find the area of each of Polonius' sketches. Write the shape letter in the correct column in the table at the bottom of the page to show which flowerbeds will fit in the gardens.



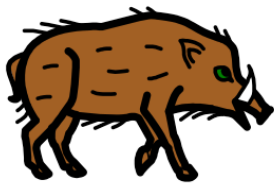
Area below 55m^2	Area 55m^2 - 200m^2	Area over 200m^2

2. The length of Elsinore Castle's north wall is 12.5m. The south wall is 9.35m.

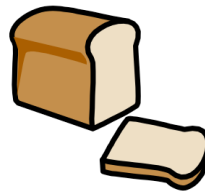


What is the total length of the two walls in kilometres?

3. The kitchen team are busy preparing for the Royal Feast. Below you can see the weight of the different foods.



Roasted boar: 7.654kg



Bread basket: 2.875kg



Dessert tray: 1.345kg

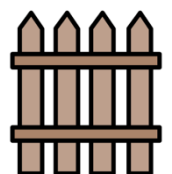
- a) What is the total weight of the feast in kilograms?
b) Convert the total weight to grams.

4. During the dry season, the castle moat is refilled with 18,750 litres of water.



How many cubic meters of water is that?

5. Hamlet wants to put a fence around Ophelia's garden. Her garden is 12.35m long and 8.75m wide. The fencing material is only sold in centimetres.



What is the total length of fencing needed in centimetres?