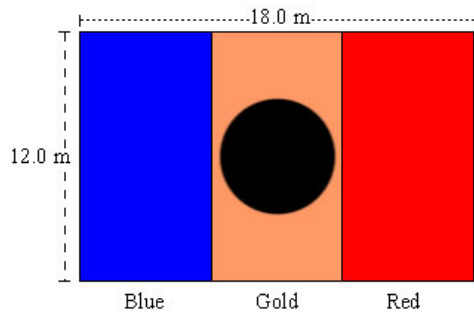


# Colours on the flag

This task is about working out the area and perimeter.

The figure below shows a flag. It has three equal-sized rectangular panels of blue, gold, and red. The gold panel has a black circle in the centre of it.



[NOT DRAWN TO SCALE]

## Useful Formula

$a = \pi r^2$  where:  
a = area of a circle  
 $\pi = 3.14$   
r = radius of a circle

What would be the **length** of stitching required to go right around the flag?

a) \_\_\_\_\_ m

b) What is the **area** of the blue panel? \_\_\_\_\_  $m^2$

c) What is the **area** of the black circle, if it has a diameter of 5.0 m? \_\_\_\_\_  $m^2$

What is the **area** of gold cloth remaining in the centre panel, if the black circle was cut from it?

d) \_\_\_\_\_  $m^2$