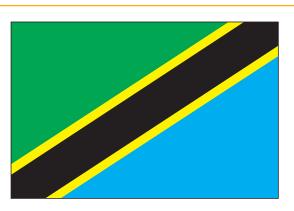
Precision Flying

You need: a compass, a protractor, a ruler, a sharp pencil, coloured pencils or felt-tip pens

- a. Follow these instructions:
 - Draw a baseline and mark off a segment 16 centimetres long. Label it DC.
 - Using your protractor, draw a line at right angles through D.
 - Extend this line upwards to A so that DA is 10.8 centimetres.
 - From A, with your compass set to 16 centimetres, draw an arc above C.
 - From C, with your compass set to 10.8 centimetres, draw an arc above C.
- Call the point where the two arcs meet B. Join C to B and A to B.
 - **b.** What shape is ABCD?
 - What size is angle ABC? Measure it with your protractor.
- Follow these instructions:
 - From A, and inside the rectangle, draw a short arc with a radius of 9.6 centimetres.
 - From D, using the same radius, draw an arc that cuts the previous arc and call this point E.
 - Join AE and DE.
 - Bisect the line BC, using a compass and ruler. Call the midpoint F.
 - - What kind of triangle is AED?
 - c. Colour the triangle dark blue, the top trapezium white, and the lower trapezium red.
 - **d.** Do some research to find out which flag you have drawn.



This flag is the national flag of Tanzania, drawn to scale.

- Construct a rectangle that is 16 cm by 10.8 cm. Make an accurate drawing of the flag within this rectangle.
- Describe precisely what you did.



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