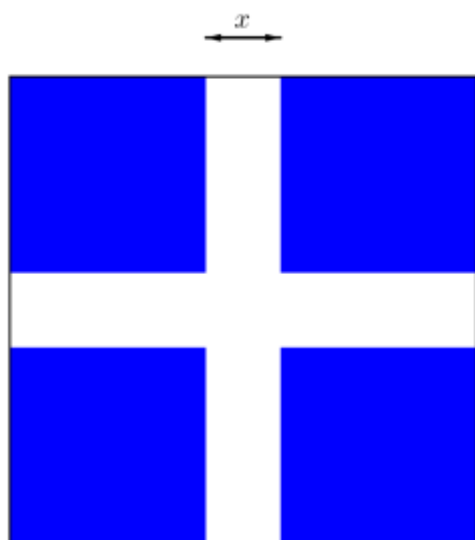


Mathematical Problem Solving

GCSE example

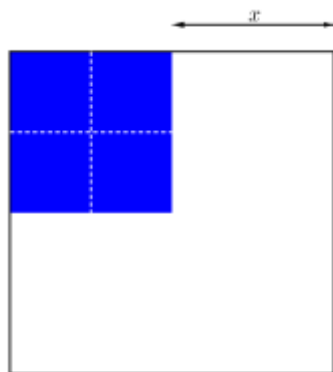
Solution to example 12



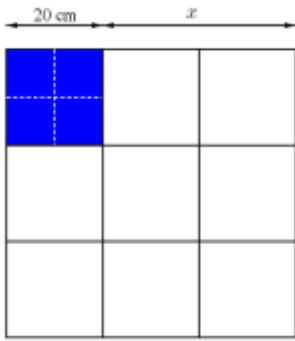
This square flag measures 60 cm by 60 cm and has 4 lines of reflection symmetry.

Find the value of x such that $\frac{1}{9}$ of the flag is blue.

The blue squares can be put together in one corner like this



If we have this area as $\frac{1}{9}$ of the original area then we have



So $x = 40$ cm