

# Patchwork quilts

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## Annotation

Rachael sees the relationship between common shapes and transformations and can describe these features in her design using precise language. She knows the sum of angles at a point is  $360^\circ$ .

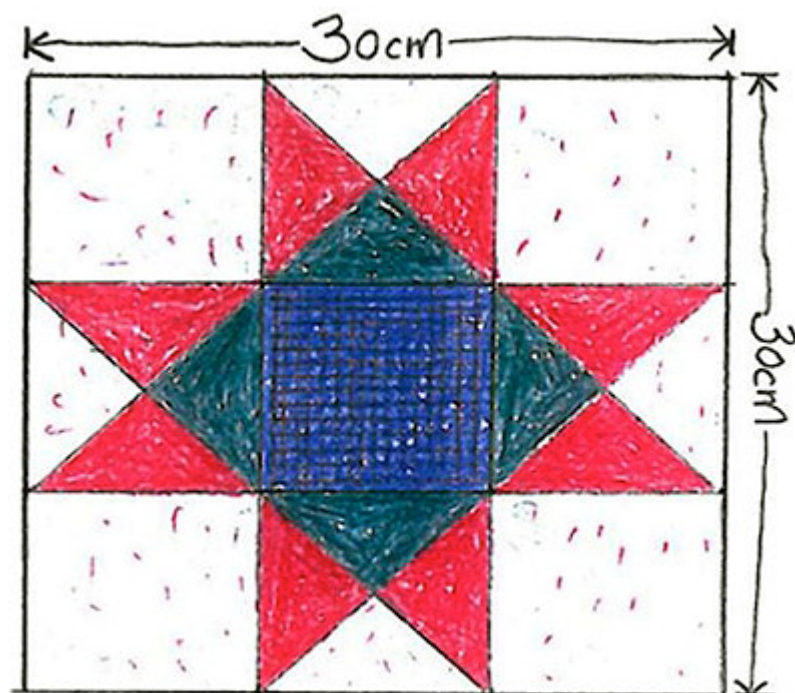
## Problem: Patchwork quilts

The students in Room 10 are designing patchwork quilt panels.

The teacher poses this problem.


*Design a panel for our class quilt and write about the geometric features that you have included.*

## Student response



## Geometry

In their own squares the red triangles reflect. Squares with red and green triangles rotate or turn  $90^\circ$  round the edge of the design.


 where they meet is  $360^\circ$

The little triangles are called isosceles.

2 little triangles make a bigger one which is half the square. of the whole design. Corner to corner is a line of symmetry.