Zara’s Radiant Rangoli Patterns

1. Blue. (1 mark)

Working: Symmetry means both sides must be identical.

Award 1 mark for the correct colour.

2. In the top-right corner. (2 marks)

Working: A reflection across a central line moves the shape to the opposite side.

Award 1 mark for identifying the correct position and 1 mark for explaining it must be a mirror image.

3. £2.00 (or 200p). (2 marks)

Working: 50p x 4 = 200p. 200p = £2.00.

Award 1 mark for the correct calculation and 1 mark for the correct currency format.

4. Rangoli patterns are placed at the entrance to welcome guests and bring good luck during Diwali. (2 marks)

Look for: Mention of welcoming guests or bringing good luck/positivity.

Good: It is to welcome people to the house.

Better: It is placed at the door to welcome guests and bring good luck for the festival.

Best: People place them at the entrance to welcome guests and invite good luck and happiness into their homes for Diwali.

What moves an answer up: Moving from good to best involves adding specific detail about the purpose (luck/happiness) and the context of the festival.

5. Student drawing should show a central line of symmetry with identical shapes on both sides. (3 marks)

Working: Check that the left side is a mirror image of the right side.

1 mark for using two geometric shapes, 2 marks for clear symmetry.

What a secure answer looks like

A secure answer shows an understanding that symmetry acts like a mirror reflection. Students should be able to apply this to both visual patterns and simple money calculations.

If your child is stuck

Ask the child to place a small mirror vertically on the centre line of their drawing. If the reflection matches their drawing, it is symmetrical!

Common mistakes to watch for

Children often forget to convert pence to pounds correctly (e.g., writing 200p instead of £2.00) or draw the 'matching' shape in the same orientation rather than reflecting it.