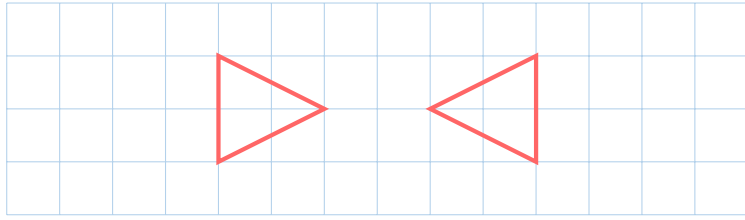


AXIAL SYMMETRY

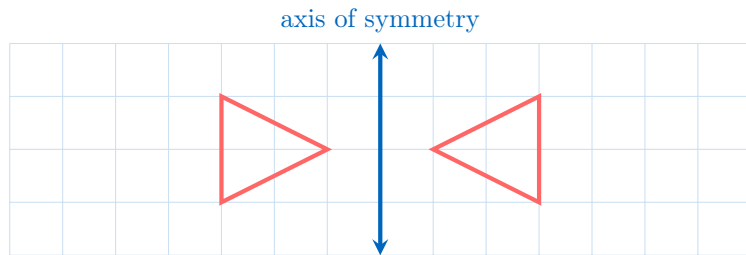
A AXIAL SYMMETRY

A.1 DRAWING THE AXIS OF SYMMETRY

Ex 1: Draw the axis of symmetry.

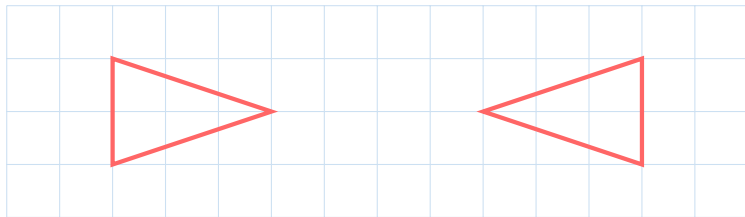


Answer: The axis of symmetry is a vertical line where the triangles are mirror images of each other.

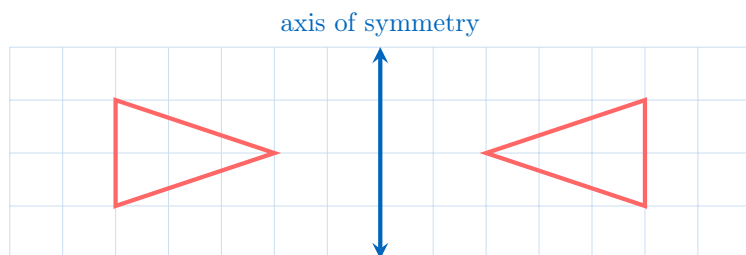


If you fold the paper along this axis of symmetry, the triangles match perfectly.

Ex 2: Draw the axis of symmetry.

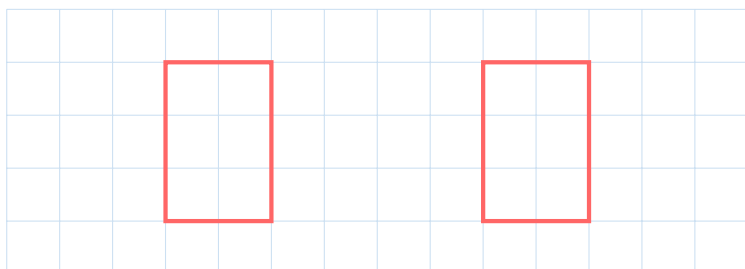


Answer: The axis of symmetry is a vertical line where the triangles are mirror images of each other.

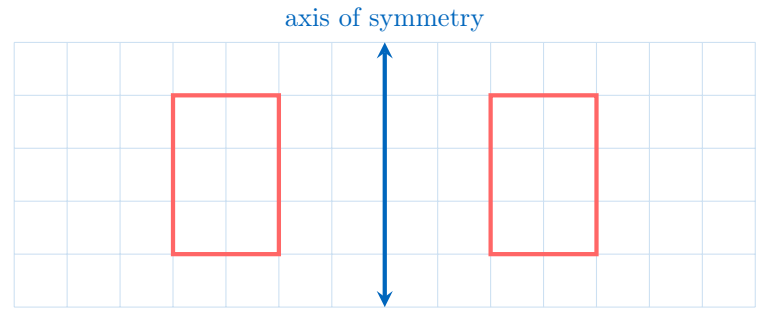


If you fold the paper along this axis of symmetry, the triangles match perfectly.

Ex 3: Draw the axis of symmetry.

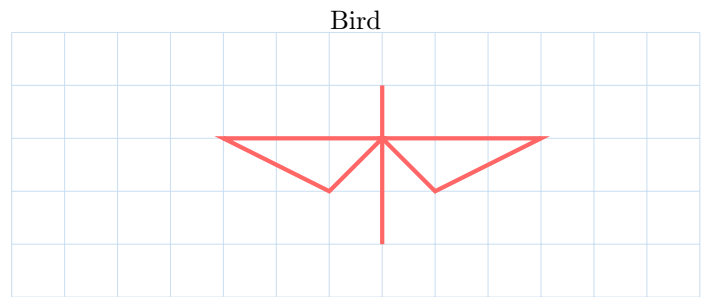


Answer: The axis of symmetry is a vertical line where the rectangles are mirror images of each other. It goes between the rectangles.

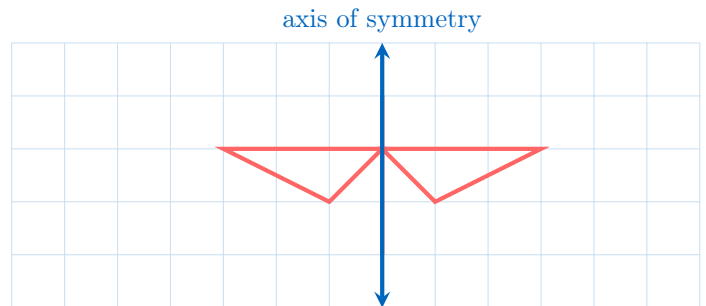


If you fold the paper along this axis of symmetry, the rectangles match perfectly.

Ex 4: Draw the axis of symmetry.



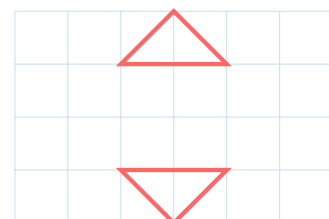
Answer: The axis of symmetry is a vertical line where the bird's wings are mirror images of each other.



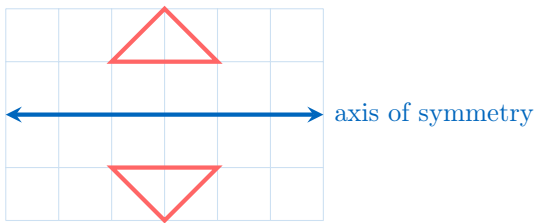
If you fold the paper along this axis of symmetry, the wings match perfectly.

A.2 DRAWING THE AXIS OF SYMMETRY

Ex 5: Draw the axis of symmetry.

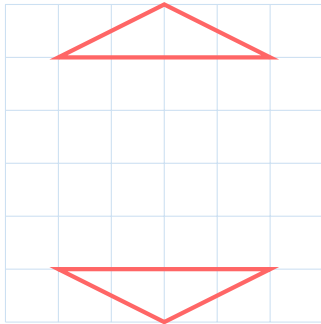


Answer: The axis of symmetry is a horizontal line where the triangles are mirror images of each other.

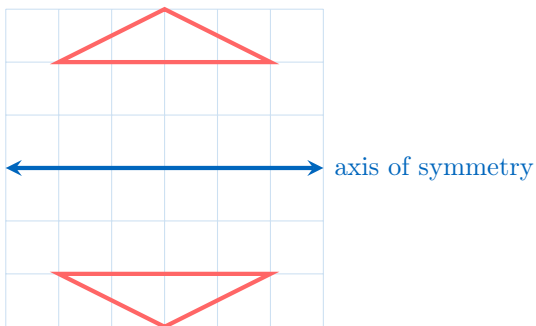


If you fold the paper along this axis of symmetry, the triangles match perfectly.

Ex 6: Draw the axis of symmetry.

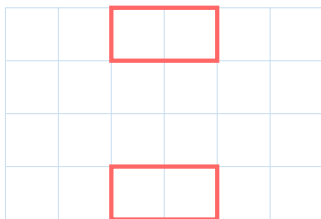


Answer: The axis of symmetry is a horizontal line where the triangles are mirror images of each other.

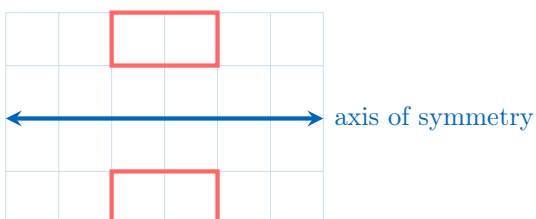


If you fold the paper along this axis of symmetry, the triangles match perfectly.

Ex 7: Draw the axis of symmetry.



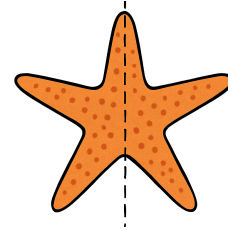
Answer: The axis of symmetry is a horizontal line where the rectangles are mirror images of each other.



If you fold the paper along this axis of symmetry, the rectangles match perfectly.

A.3 CHECKING SYMMETRY

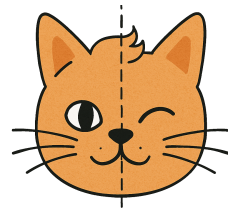
MCQ 8: Is the starfish symmetrical along the dashed line?



- ☒ Symmetrical
☐ Not Symmetrical

Answer: Symmetrical

MCQ 9: Is the cat face symmetrical along the dashed line?



- ☐ Symmetrical
☒ Not Symmetrical

Answer: Not Symmetrical

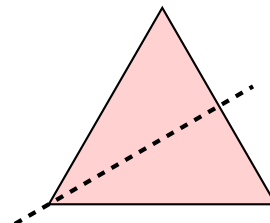
MCQ 10: Is the snowflake symmetrical along the dashed line?



- ☒ Symmetrical
☐ Not Symmetrical

Answer: Symmetrical

MCQ 11: Is the triangle symmetrical along the dashed line?

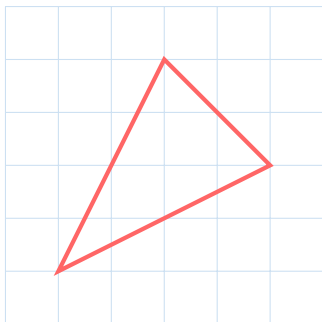


- ☒ Symmetrical
☐ Not Symmetrical

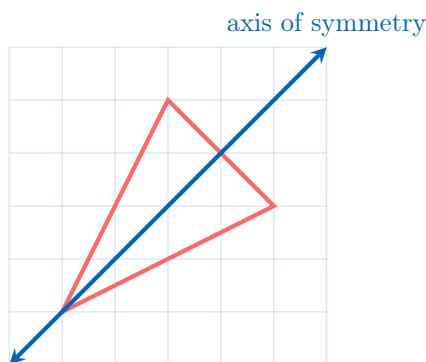
Answer: Symmetrical

A.4 DRAWING THE DIAGONAL AXIS OF SYMMETRY

Ex 12: Draw the axis of symmetry.

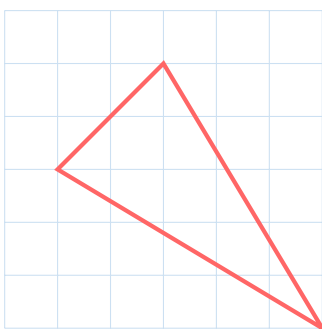


Answer: The axis of symmetry is a diagonal line where the two parts of the figure are mirror images of each other.

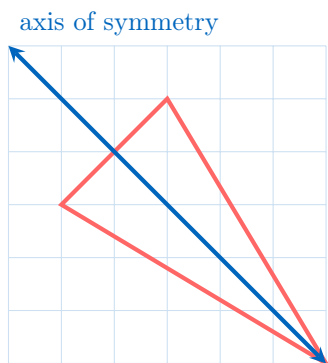


If you fold the paper along this axis of symmetry, the figure matches perfectly.

Ex 13: Draw the axis of symmetry.

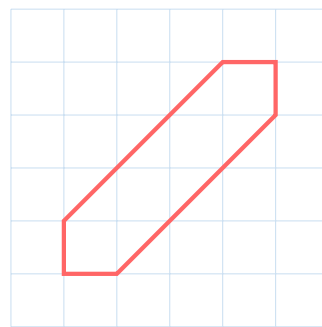


Answer: The axis of symmetry is a diagonal line where the two parts of the figure are mirror images of each other.

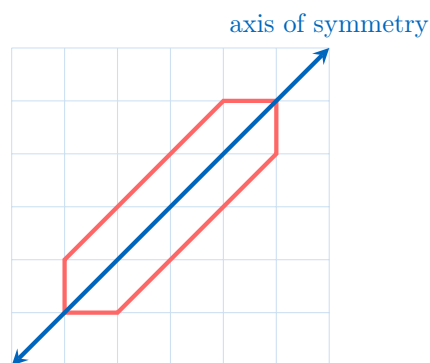


If you fold the paper along this axis of symmetry, the figure matches perfectly.

Ex 14: Draw the axis of symmetry.

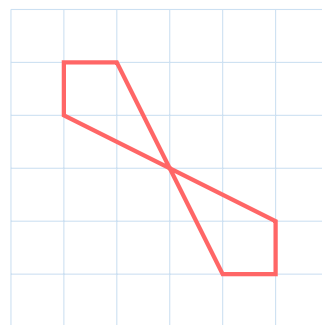


Answer: The axis of symmetry is a diagonal line where the two parts of the figure are mirror images of each other.

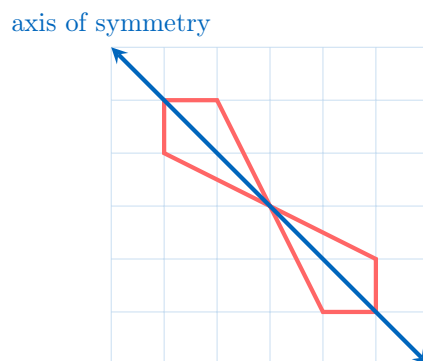


If you fold the paper along this axis of symmetry, the figure matches perfectly.

Ex 15: Draw the axis of symmetry.



Answer: The axis of symmetry is a diagonal line where the two parts of the figure are mirror images of each other.

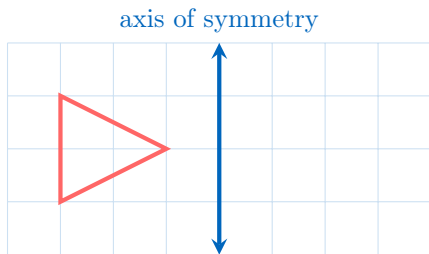


If you fold the paper along this axis of symmetry, the figure matches perfectly.

B DRAWING THE MIRROR OF A FIGURE

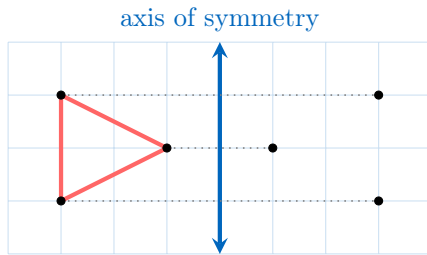
B.1 DRAWING MIRROR FIGURES

Ex 16: Draw the mirror figure.

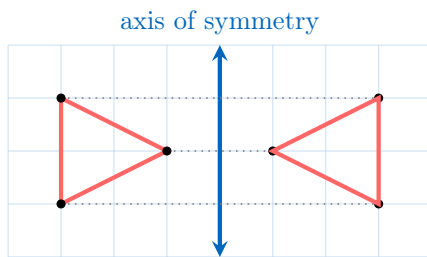


Answer:

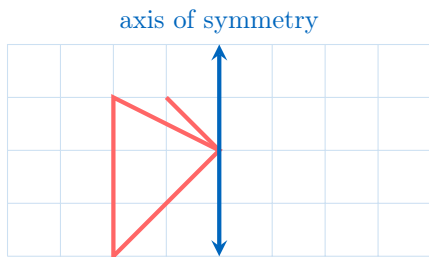
1. **Draw the mirror vertices:** For each vertex, count the squares to the mirror line (left or right). Place a new point on the other side of the line, the same number of squares away.



2. **Draw the mirror figure:** Connect the mirror vertices with lines in the same order as the original figure.

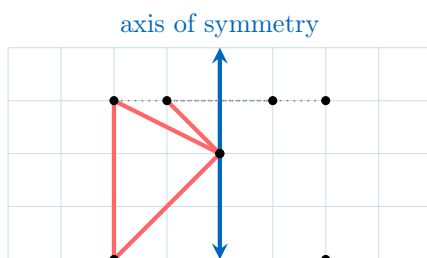


Ex 17: Draw the mirror figure.

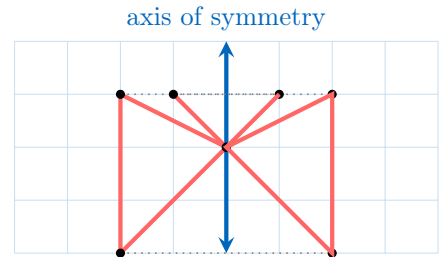


Answer:

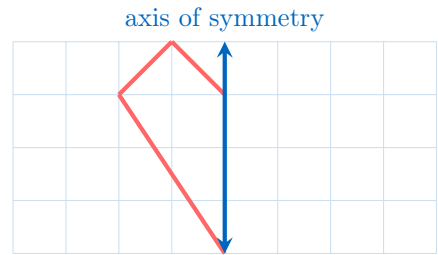
1. **Draw the mirror vertices:** For each vertex, count the squares to the axis of symmetry (left or right). Place a new point on the other side of the line, the same number of squares away.



2. **Draw the mirror figure:** Connect the mirror vertices with lines in the same order as the original figure.

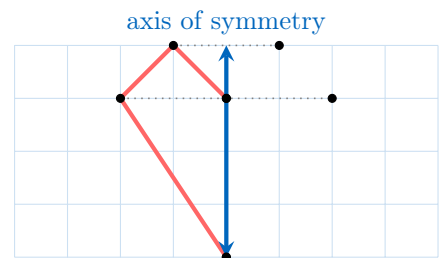


Ex 18: Draw the mirror figure.

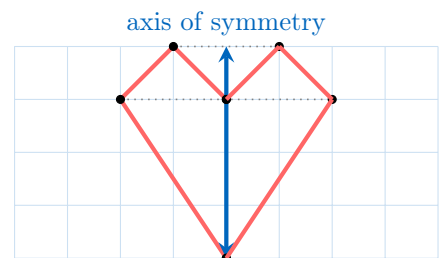


Answer:

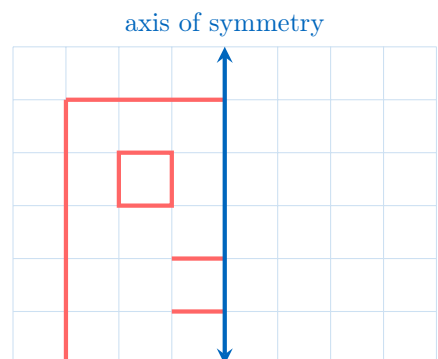
1. **Draw the mirror vertices:** For each vertex, count the squares to the axis of symmetry (left or right). Place a new point on the other side of the line, the same number of squares away.



2. **Draw the mirror figure:** Connect the mirror vertices with lines in the same order as the original figure.

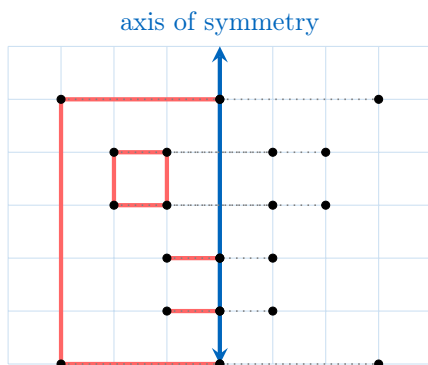


Ex 19: Draw the mirror figure.



Answer:

1. **Draw the mirror vertices:** For each vertex, count the squares to the axis of symmetry (left or right). Place a new point on the other side of the line, the same number of squares away.



2. **Draw the mirror figure:** Connect the mirror vertices with lines in the same order as the original figure.

