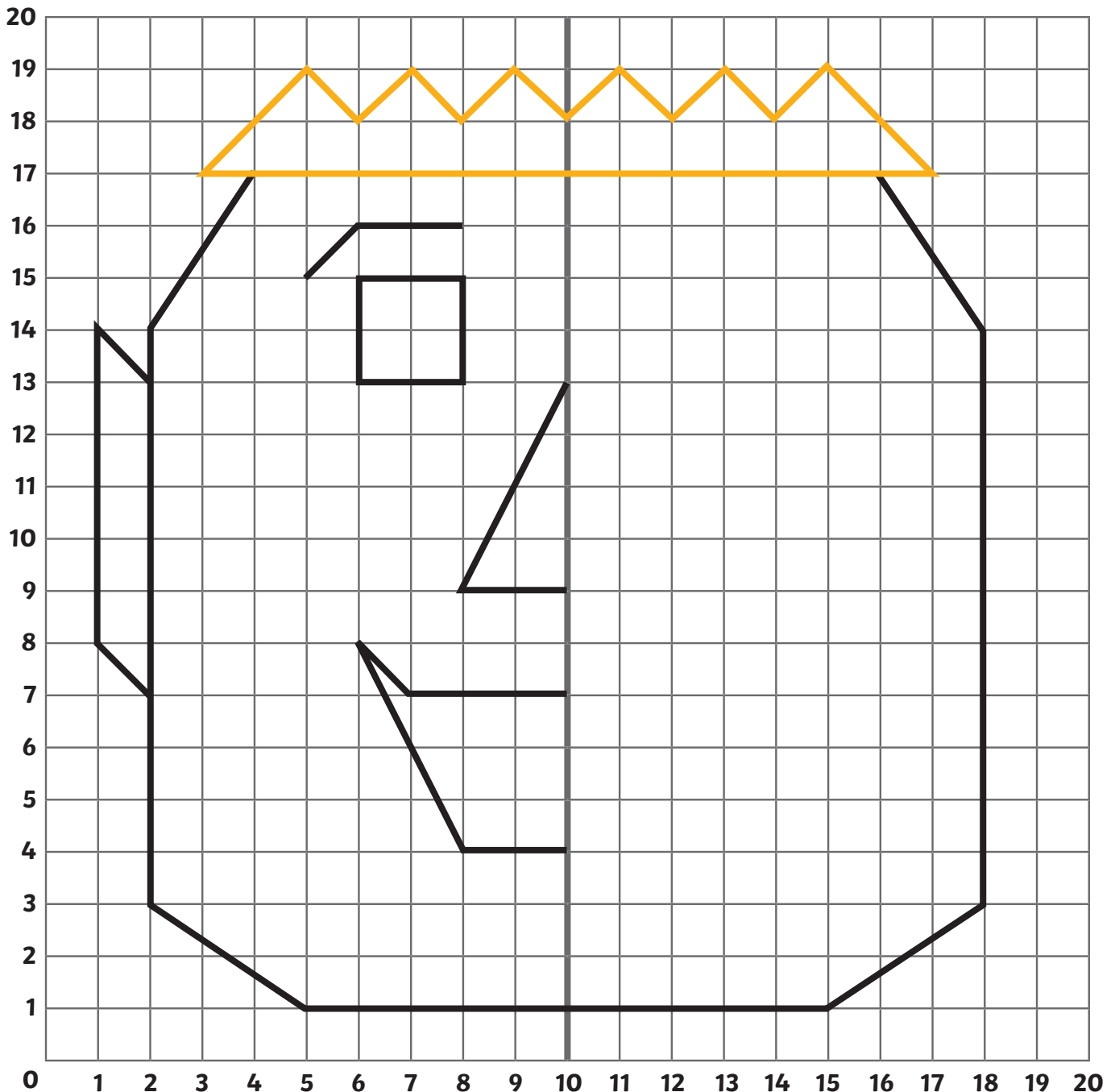


'Make a Face' Coordinates Challenge 1

1. Complete the face using the given line of symmetry.



2. What coordinates did you use for...

...the eyebrow? _____

...the eye? _____

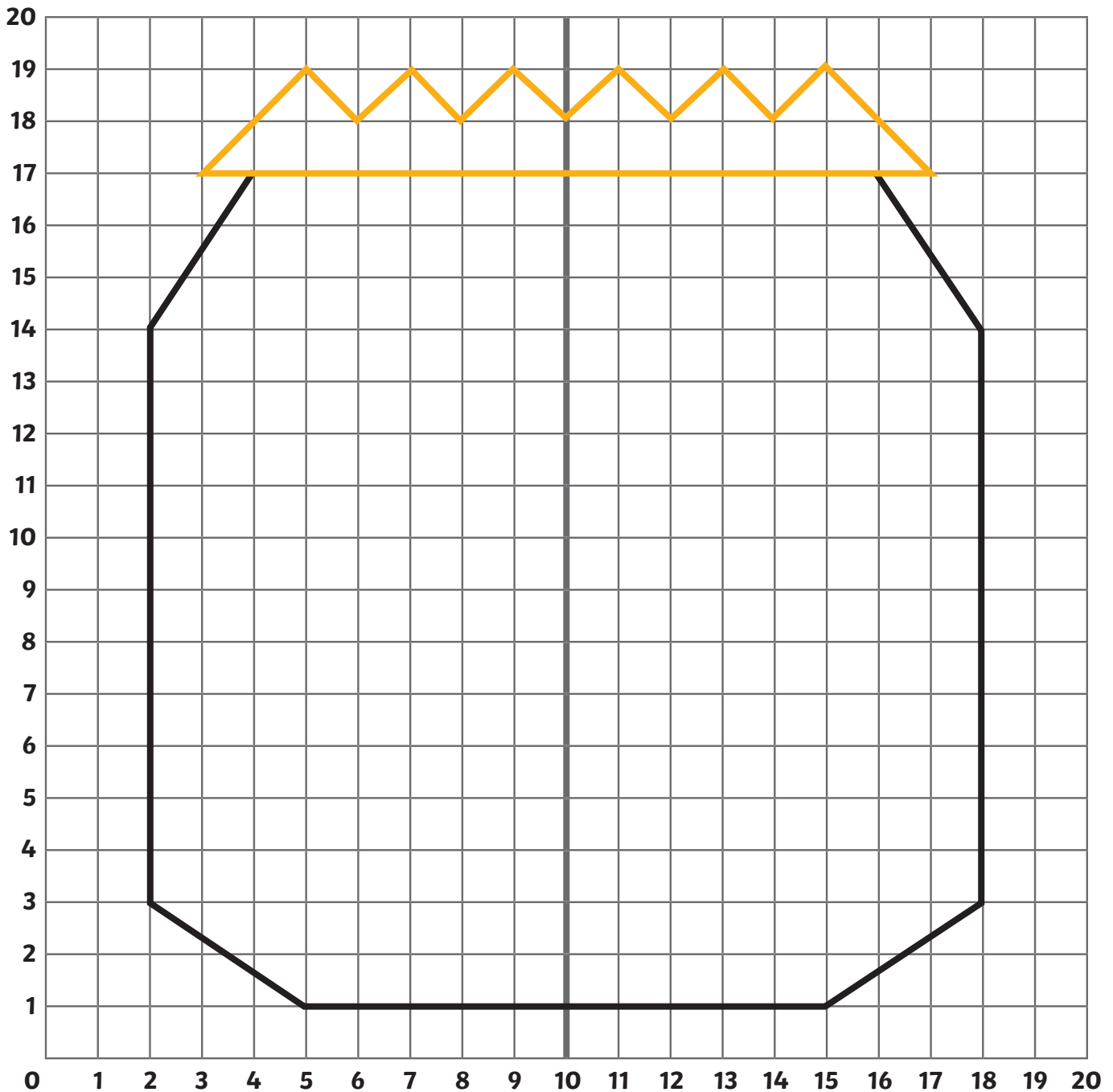
...the mouth? _____

3. What 2D shape are the ears? _____

4. How many lines of symmetry are there in one eye? _____

'Make a Face' Coordinates Challenge 2

1. Use the exact shapes provided on the other sheet and the given line of symmetry to make a symmetrical face on the grid.



2. What coordinates did you use for...

...the eyebrows? _____

...the ears? _____

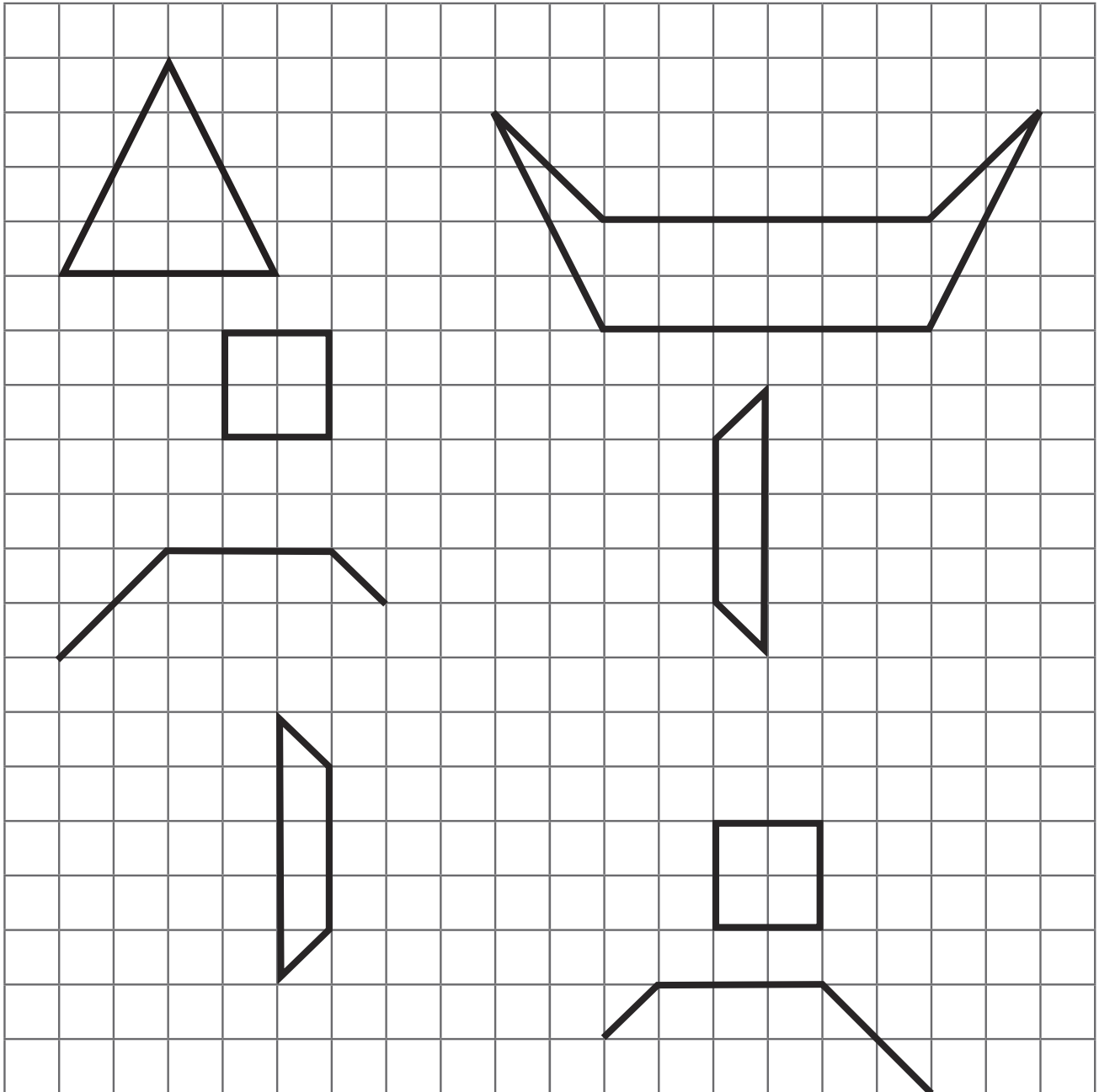
...the mouth? _____

...the nose? _____

...the eyes? _____

'Make a Face' Coordinates Challenge 2

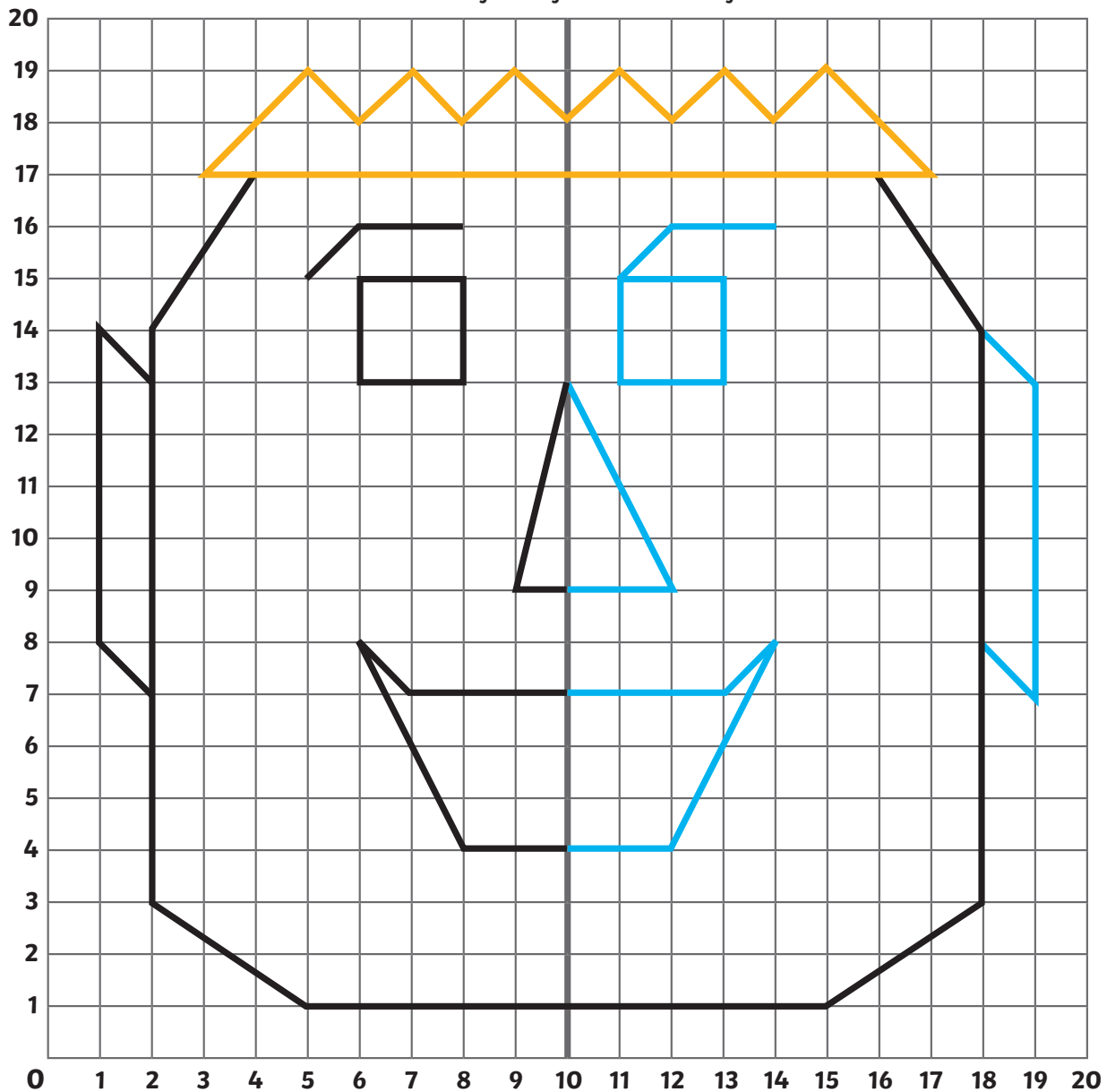
Shapes to be used to make your symmetrical face.



'Make a Face' Coordinates Challenge 3

Answer the questions about this symmetrical 2D shape face.

The blue side of the face is the reflection.



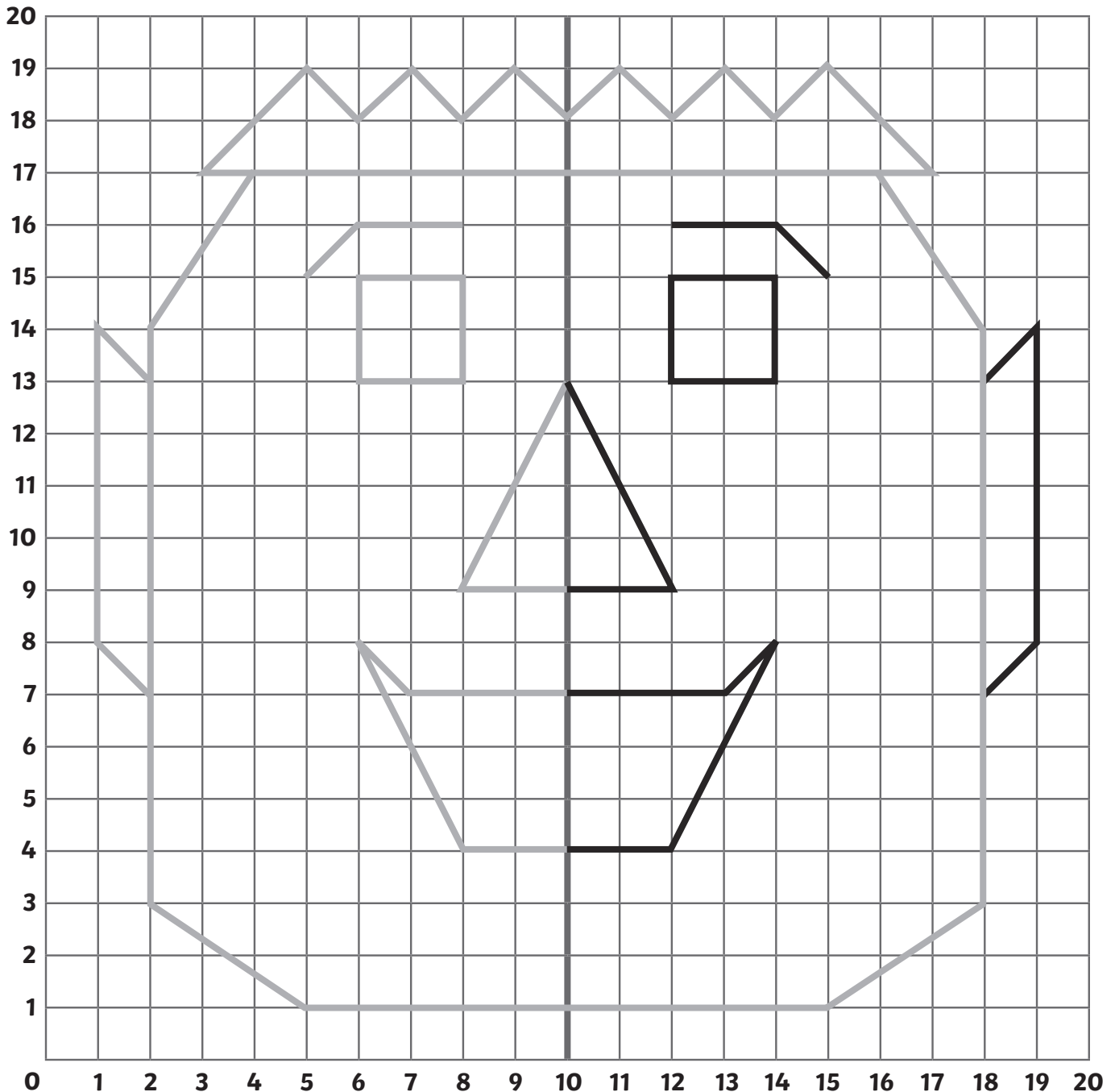
- Two features of this face are translations, not reflections. Which? _____
- What other two mistakes can you see with the reflection? _____

- How many right angles can you find in both eyes? _____
- Add a moustache to the face. What coordinates did you use? _____
- What type of triangle does the nose make when it is reflected correctly? _____
- The 2D shape made by the mouth is an irregular _____.
- Which coordinates are used for the mouth? _____

'Make a Face' Coordinates Challenge 1

Answers

1. Complete the face using the given line of symmetry.



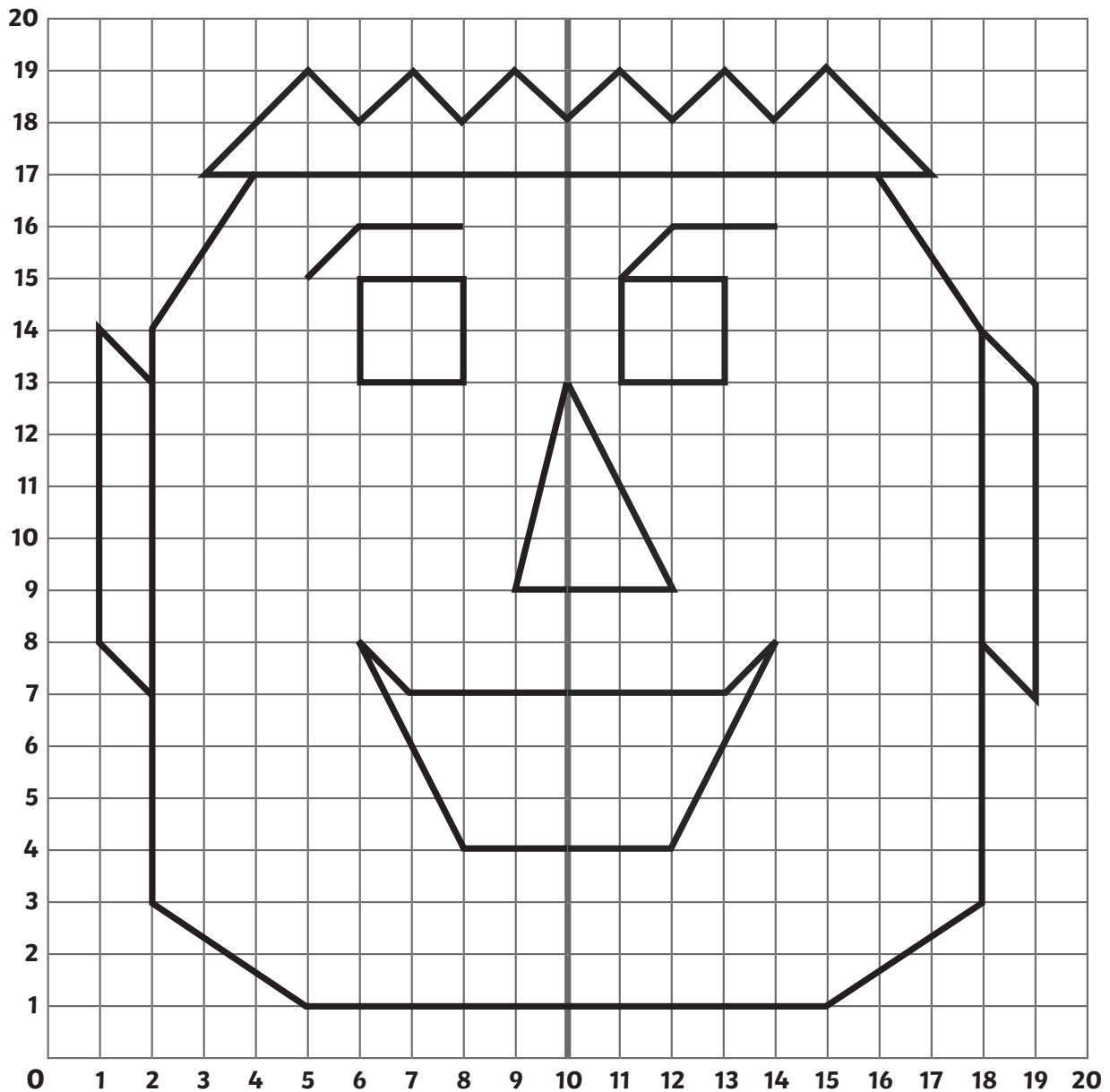
2. eyebrow: (12, 16) (14, 16) (15, 15)
eye: (12, 13) (12, 15) (14, 15) (14, 13)
mouth: (12, 4) (14, 8) (13, 7)

3. **parallelogram**

4. **four**

'Make a Face' Coordinates Challenge 3

Answers



- a) ears and eyebrows.
- b) The nose and eye are incorrect.
- c) 8
- d) Answers will vary. Must be symmetrical and between the nose and mouth.
- e) isosceles
- f) hexagon
- g) (6, 8), (7, 7), (13, 7), (14, 8), (12, 4), (8, 4)