

Emoji Coordinates

Draw the lines made by these coordinates. Use a different colour for each line.

(6,0) (8,1) (9,2) (10,4) (10,6) (9,8) (8,9) (6,10) (4,10)

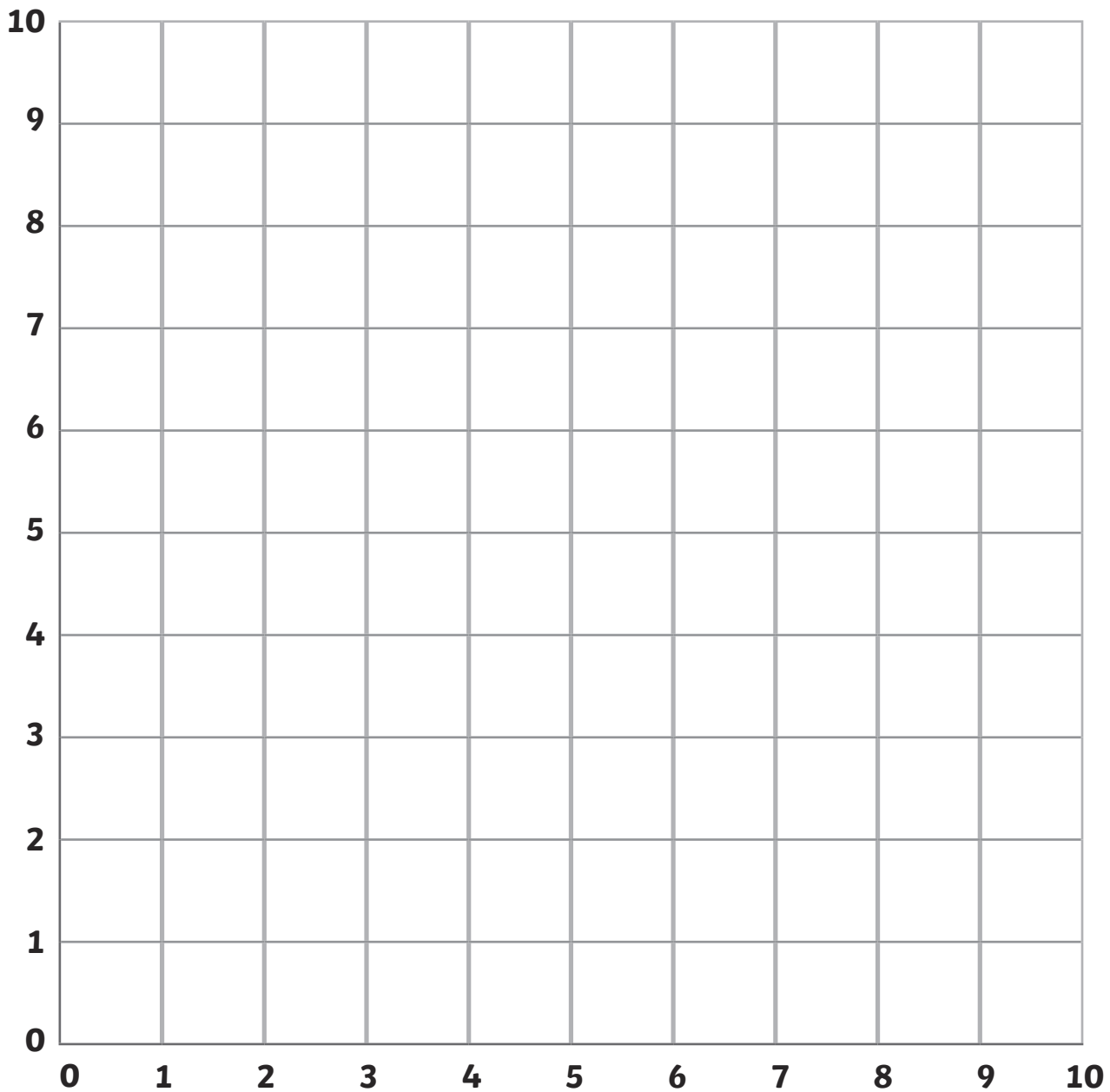
(6,0) (4,0) (2,1) (1,2) (0,4) (0,6) (1,8) (2,9) (4,10)

(3,5) (1,7) (2,8) (3,7) (4,8) (5,7) (3,5)

(7,5) (5,7) (6,8) (7,7) (8,8) (9,7) (7,5)

(3,4) (4,3) (6,3) (7,4) (6,2) (4,2) (3,4)

What shape do they make together?



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(6,0) (8,1) (9,2) (10,4) (10,6) (9,8) (8,9) (6,10) (4,10)

(6,0) (4,0) (2,1) (1,2) (0,4) (0,6) (1,8) (2,9) (4,10)

(3,6) (4,7) (3,8) (2,7) (3,6)

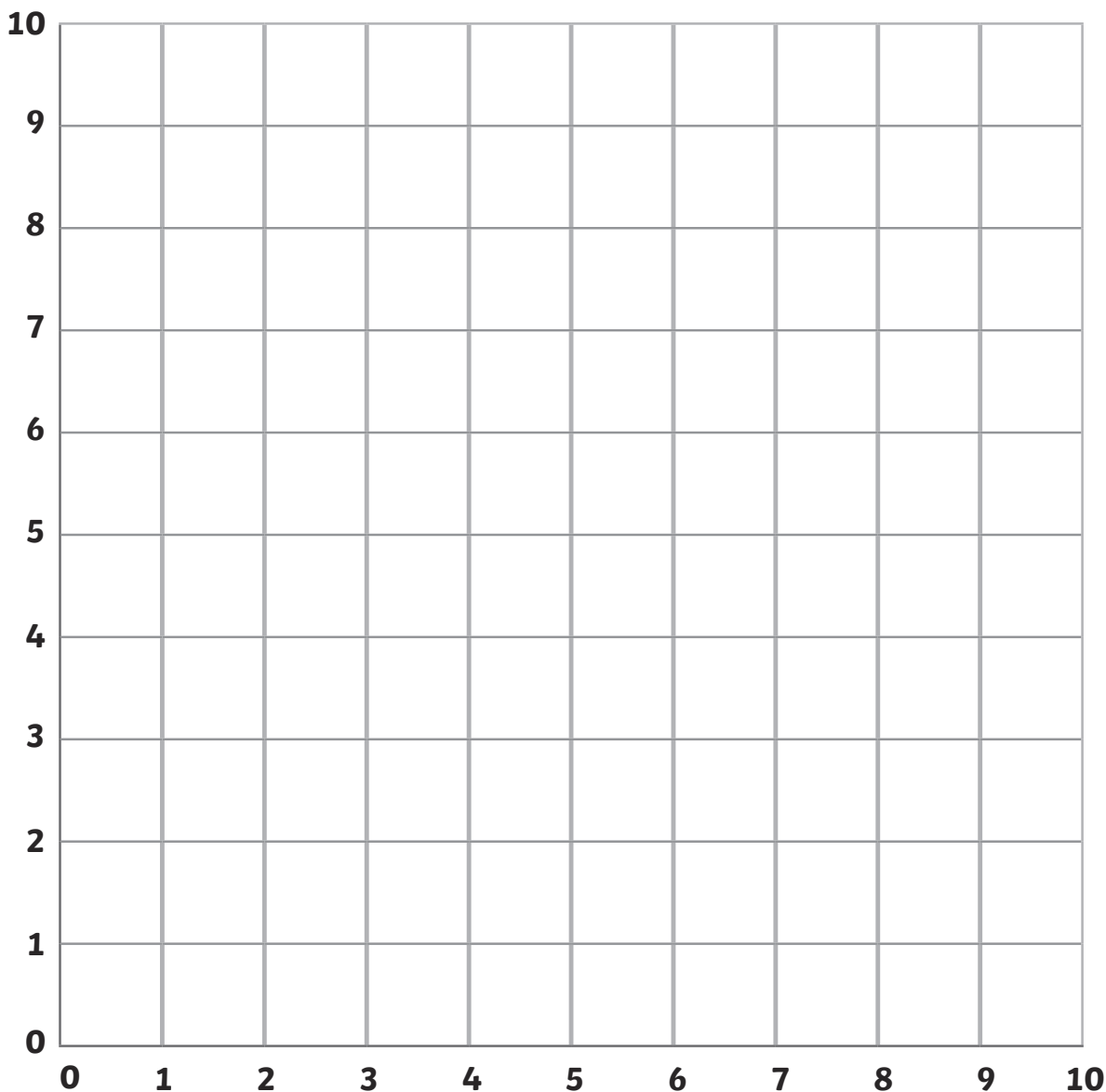
(1,7) (2,8) (4,9)

(6,9) (8,8) (9,7)

(6,7) (7,7) (8,6)

(3,4) (4,3) (6,3) (7,4) (6,2) (4,2) (3,4)

What shape do they make together?



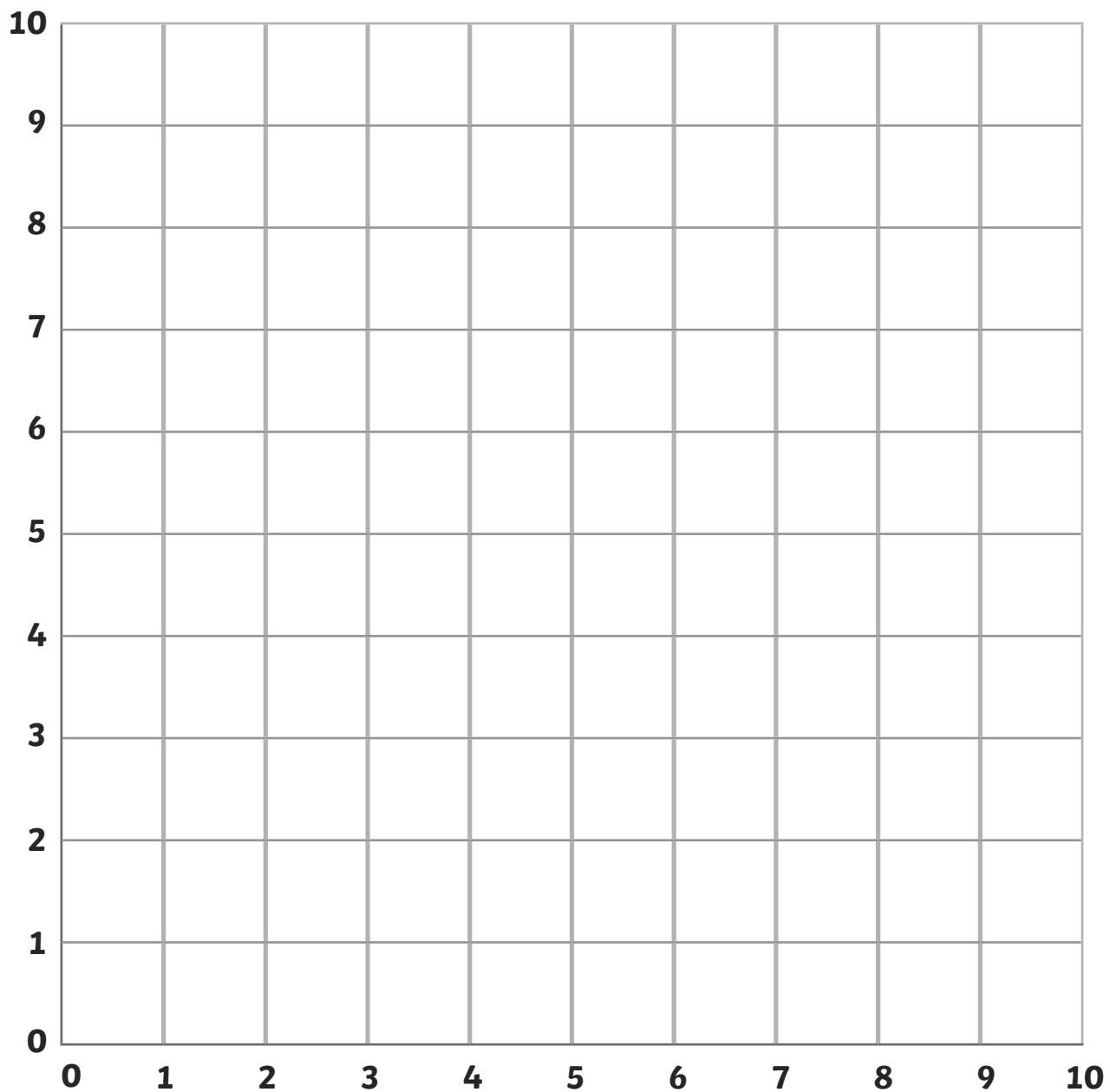
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(3,1) (0,4) (0,5) (1,6) (2,6) (3,5) (4,6) (5,6) (6,5) (6,4) (3,1)

(5,5) (2,8) (2,9) (3,10) (4,10) (5,9) (6,10) (7,10) (8,9) (8,8) (5,5)

What shape do they make together?



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Draw the lines made by these coordinates. Use a different colour for each line.

(8,1) (7,0) (5,0) (3,1) (4,4) (2,3) (0,4) (0,5) (1,6) (3,7)

(3,7) (2,9) (4,8)

(7,4) (6,3) (6,2) (7,1) (9,1) (10,2) (9,2) (10,4) (10,5) (9,6) (9,4) (8,3) (7,4)

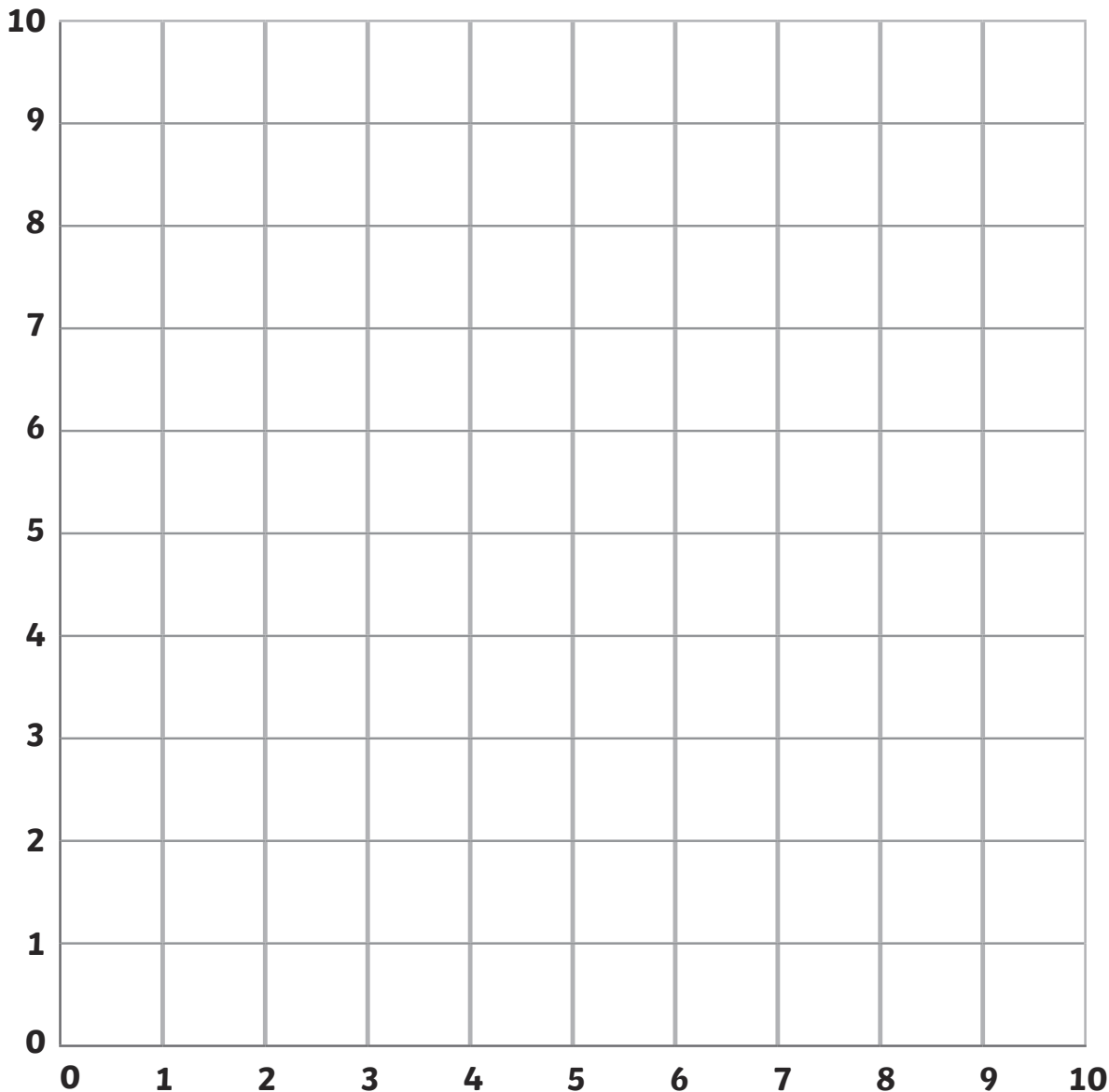
(9,6) (10,6) (9,7) (8,7) (7,8) (6,8) (6,9) (5,8) (5,9) (4,8)

(5,8) (6,7) (7,7) (6,6) (6,4) (7,5) (7,6) (8,7)

(7,5) (8,5) (7,4)

(4,6)

What shape do they make together?



Helicopter Coordinates

Amazing Fact

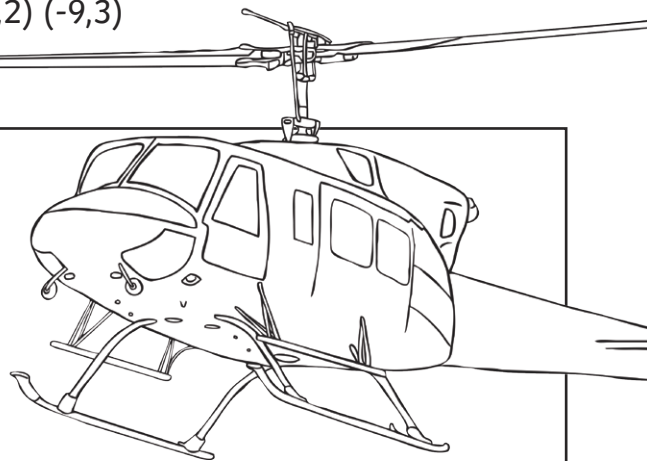
In 1861, the word 'helicopter' was first used for a machine which did not actually lift off the ground.

Challenge

Using the four-quadrant grid on the next page, carefully plot these points. Then, use a ruler to draw a line between each pair of coordinates. If you have done this correctly, it should reveal a special shape!

Coordinates

- | | | | |
|--------------------|-------------------|---------------------|---------------------|
| 1. (-7,-6) (-7,-7) | 12. (5,3) (3,5) | 23. (-6,6) (-1,6) | 34. (-9,3) (-3,-4) |
| 2. (-7,-7) (4,-7) | 13. (3,5) (1,5) | 24. (-1,6) (-1,5) | 35. (-3,-4) (-4,-6) |
| 3. (4,-7) (5,-6) | 14. (1,5) (1,6) | 25. (-1,5) (1,5) | 36. (-4,-6) (-7,-6) |
| 4. (5,-6) (5,-5) | 15. (1,6) (6,6) | 26. (1,5) (-3,5) | 37. (-9,3) (-2,-4) |
| 5. (5,-5) (3,-6) | 16. (6,6) (6,7) | 27. (-3,5) (-4,3) | 38. (-2,-4) (-3,-6) |
| 6. (3,-6) (2,-4) | 17. (6,7) (1,7) | 28. (-4,3) (-8,5) | 39. (-3,-6) (2,-6) |
| 7. (2,-4) (6,-2) | 18. (1,7) (1,8) | 29. (-8,5) (-7,6) | 40. (2,-6) (1,-4) |
| 8. (6,-2) (2,1) | 19. (1,8) (-1,8) | 30. (-7,6) (-8,7) | 41. (1,-4) (-2,-4) |
| 9. (2,1) (5,3) | 20. (-1,8) (-1,7) | 31. (-8,7) (-10,3) | |
| 10. (5,3) (6,2) | 21. (-1,7) (-6,7) | 32. (-10,3) (-10,2) | |
| 11. (6,2) (6,-2) | 22. (-6,7) (-6,6) | 33. (-10,2) (-9,3) | |



You could also try to find out:

- what helicopters are used for;
- who built the first flying helicopter and when;
- how helicopters work.

Helicopter Coordinates

