

# Helicopter Coordinates

## Amazing Fact

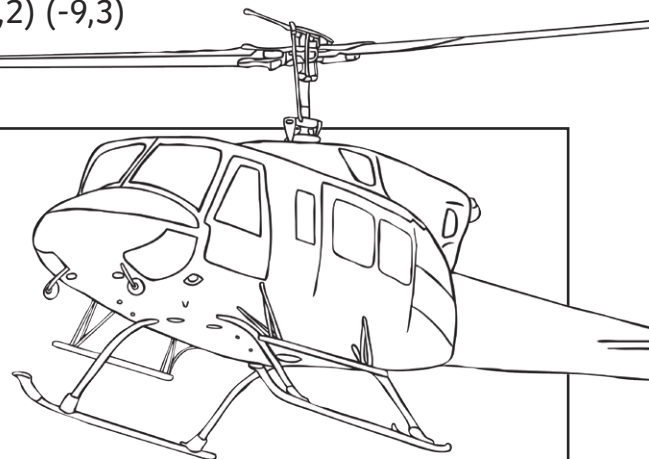
In 1861, the word 'helicopter' was first used for a machine which did not actually lift off the ground.

## 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

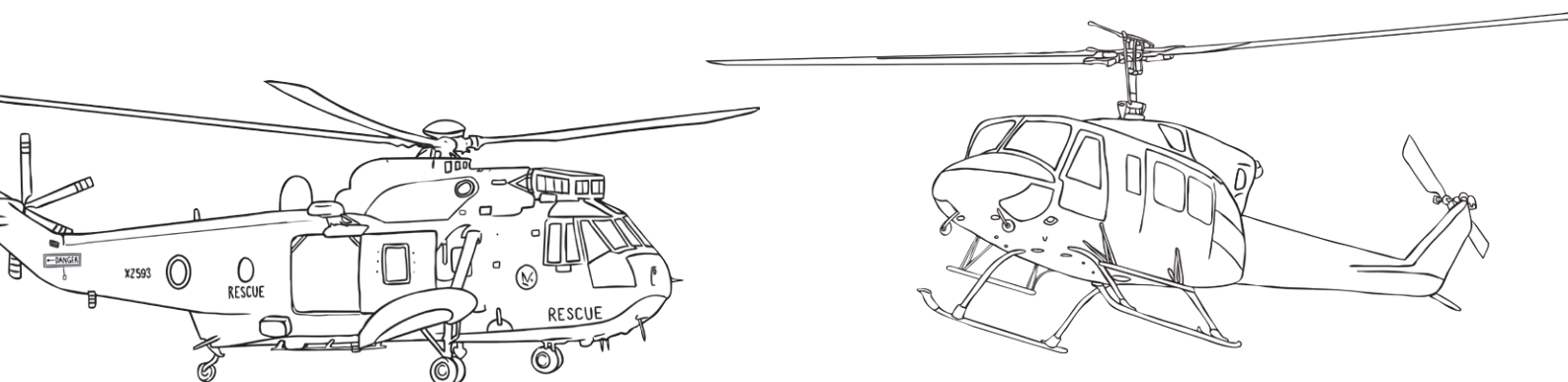
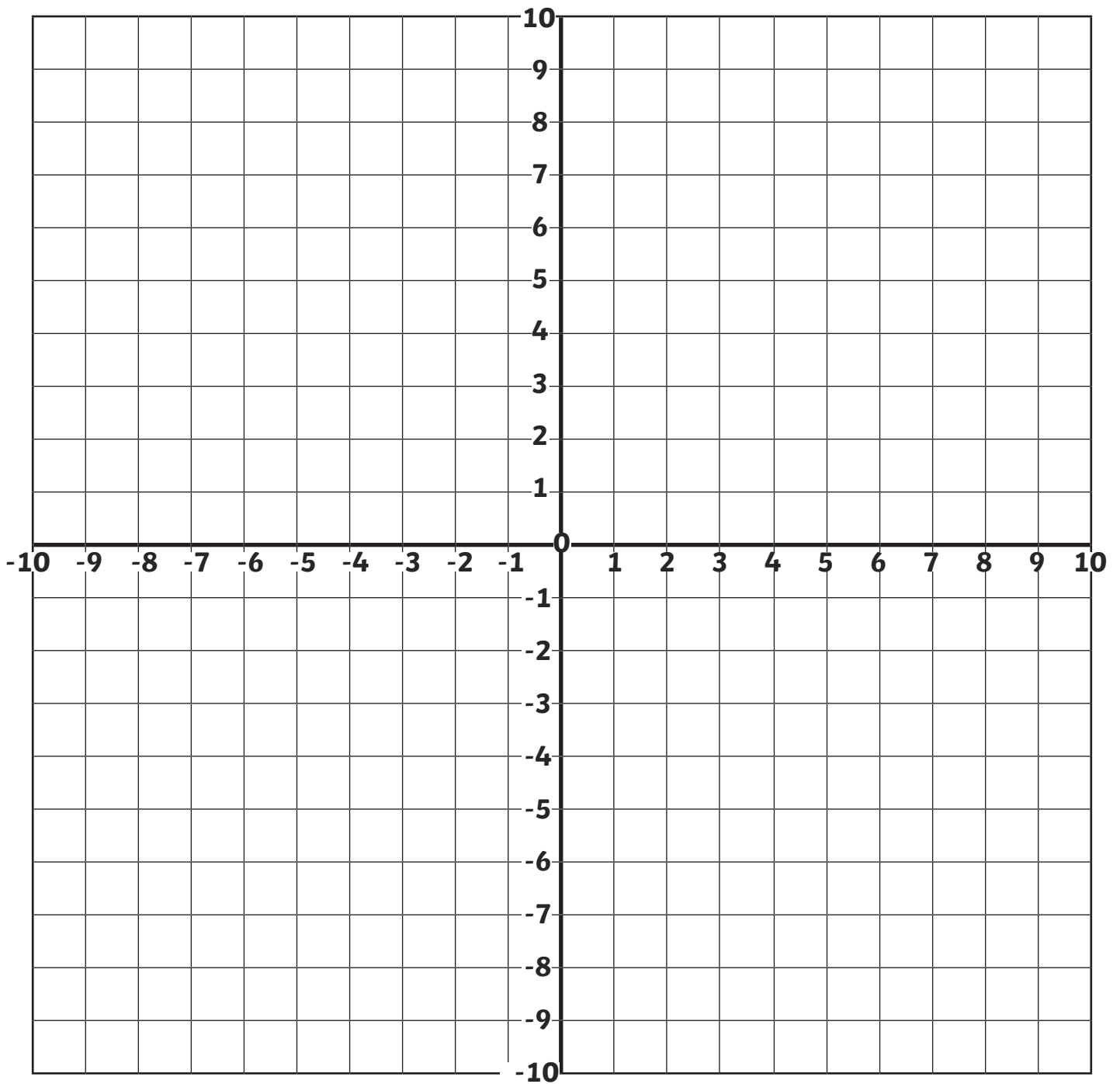
- |                        |                       |                         |                         |
|------------------------|-----------------------|-------------------------|-------------------------|
| 1. $(-7,-6)$ $(-7,-7)$ | 12. $(5,3)$ $(3,5)$   | 23. $(-6,6)$ $(-1,6)$   | 34. $(-9,3)$ $(-3,-4)$  |
| 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



# Helicopter Coordinates **Answers**

