

Finn's Oceanic Mapping Challenge

Learning objective: To accurately identify and use four-figure grid references to locate features on a map.

Join Finn the dolphin on his expedition! Use your knowledge of map coordinates to help Finn navigate the coastal waters. Remember: 'Along the corridor, then up the stairs!'

Answer Key: 1. A (04, 22), 2. True, 3. Northing, 4. B (06, 25), 5. False (It is the easting), 6. 05, 7. 07, 8. C (08, 23), 9. True, 10. 21. Explanations: 1. *04, 22; 2. True; 3. Northing; 4. *06, 25; 5. False; 6. 05; 7. 07; 8. *08, 23; 9. True; 10. 21.

Word bank: Grid reference · Coordinates · Easting · Northing · Map key · Symbol · Latitude · Longitude

1. Finn is at a coral reef located in grid square A) 04, 22*, B) 22, 04, C) 40, 22, D) 04, 24. Which is the correct four-figure grid reference? (1 mark)

2. True or False: A four-figure grid reference identifies a specific square on a map rather than a single point. (1 mark)

3. When reading a grid reference, do we read the vertical line (the number going up the side) as the Easting or the Northing? (1 mark)

4. Finn spots a sunken ship in square A) 06, 26, B) 06, 25*, C) 25, 06, D) 60, 50. Which reference is correct? (1 mark)

5. True or False: The first two numbers in a four-figure grid reference represent the Northing. (1 mark)

6. If you are looking at a square where the bottom-left corner is at coordinate 05, 12, what is the Easting? (1 mark)

7. In the grid reference 07, 19, what is the Northing? (1 mark)

8. Finn wants to swim to the lighthouse in square A) 23, 08, B) 80, 30, C) 08, 23*, D) 32, 80. Which is correct? (1 mark)

9. True or False: Grid references are essential for search and rescue teams to pinpoint locations quickly. (1 mark)

10. If a square is identified as 14, 21, what is the value of the Northing? (1 mark)

Draw: Draw a 5x5 grid. In square 02, 03 draw a small treasure chest. In square 04, 01 draw a palm tree. Label your Eastings and Northings clearly.



Extension challenge: 1. Explain why four-figure grid references are less precise than six-figure grid references. 2. Compare and contrast how a map uses grid references versus how a digital GPS uses coordinates. 3. Justify why a map key is necessary to interpret the features within a grid square. 4. What might happen if a map maker swapped the Easting and Northing values on all map labels? 5. If Finn is at 02, 02 and moves two squares East and one square North, what is his new grid reference? 6. Design a fictional island map and create three 'clue' questions based on grid references for a friend to solve.