Coordinates – plotting coordinates

Maps and street directories use coordinates to help us follow routes and find places. We read coordinates horizontally and then vertically, so the letter comes before the number.

1 Write the letter for each coordinate to work out the riddle and the answer:

<table>
<thead>
<tr>
<th>Questions</th>
<th>Riddle answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1, C4, D1, I4, A5</td>
<td>F2, I4</td>
</tr>
<tr>
<td>E6, H7, I1, A3, A5</td>
<td>J3, H7, A3, G1</td>
</tr>
<tr>
<td>C6, I1, I4</td>
<td>I4, C4, D1, H2</td>
</tr>
<tr>
<td>E6, H7, I1, A3</td>
<td>E6, H7, I1</td>
</tr>
<tr>
<td>E3, A3, F2, G1, H2, G4, A5</td>
<td>G4, H7?</td>
</tr>
<tr>
<td>I1, A5, G1</td>
<td></td>
</tr>
</tbody>
</table>

2 Plot these points and then connect them to make a 3D shape. Use a ruler.

<table>
<thead>
<tr>
<th></th>
<th>F1 to C1</th>
<th>F1 to D3</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1 to A3</td>
<td>D3 to D5</td>
<td></td>
</tr>
<tr>
<td>A3 to A5</td>
<td>C1 to C3</td>
<td></td>
</tr>
<tr>
<td>A5 to D5</td>
<td>A3 to F3</td>
<td></td>
</tr>
<tr>
<td>D5 to F3</td>
<td>C3 to A5</td>
<td></td>
</tr>
<tr>
<td>F3 to F1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Coordinates – plotting coordinates

**3** Plot and connect these coordinates to find the path taken by the cowboy to find his boots.
Plot these points: A1, A2, C2, C3, E3, E4, G4, G5, I5, I7

![Cowboy Image]

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**4** Connect each set of dots using a ruler:

E2 to D1, D1 to D3, D3 to B3, B3 to C4, C4 to B5, B5 to D5, D5 to D7, D7 to E6

Draw the other half of your shape and decorate.

![Chart Image]
Coordinates – street directories

Maps and street directories use coordinates to help us follow routes and find places.

1 Write the coordinates for these places on the island:

![Map with coordinates]

Sailing
Tennis
Café
Kids’ Club
Snorkelling

Now label these on the map:
Marina – G3
Jet skiing – C8
Camping site – D4

2 You will need to use a street directory for this question. Look at what it uses as symbols and how the streets are labelled. Do you think their choices are useful? Now ...

a Finish the coordinates on the grid below.
b Name each street.
c Make your own key using symbols.
d Label your map with the following:
- swimming pool
- church
- police station
- hospital
- post office
- bridge
- library
- railway line

![Grid with coordinates and symbols]
Complete this map by labelling it with the streets in the table below:

<table>
<thead>
<tr>
<th>Label</th>
<th>Clue 1</th>
<th>Clue 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Webb Street</td>
<td>B6</td>
<td>C4</td>
</tr>
<tr>
<td>Cuba Street</td>
<td>G4</td>
<td>G6</td>
</tr>
<tr>
<td>Noble Parade</td>
<td>A4</td>
<td>B5</td>
</tr>
<tr>
<td>Brent Street</td>
<td>A3</td>
<td>C4</td>
</tr>
<tr>
<td>Wilcox Street</td>
<td>E5</td>
<td>E3</td>
</tr>
<tr>
<td>Corona Street</td>
<td>I6</td>
<td>I4</td>
</tr>
<tr>
<td>Orion Street</td>
<td>E2</td>
<td>G3</td>
</tr>
<tr>
<td>Thorpe Road</td>
<td>F4</td>
<td>H4</td>
</tr>
<tr>
<td>Shirley Street</td>
<td>E6</td>
<td>G6</td>
</tr>
<tr>
<td>Fox Road</td>
<td>F2</td>
<td>F1</td>
</tr>
</tbody>
</table>

You live on the corner of Cuba and Shirley Streets. Your friend lives on the corner of Fox Road and Orion Street. Draw your houses and then write a set of directions for your friend to visit you.
You will be travelling to 2 cities. In each city you will follow directions to locate a secret spot. Mark your travels on the map. Some of the clues are a little cryptic and might require some thought.

It’s time to hit the streets of **New York** (USA)! You arrive at Grand Central Terminal and walk out onto Vanderbilt Avenue.

You want to get to Radio City Music Hall. Draw what you think would be the fastest route. From Radio City Music Hall, walk 8 blocks down Ave of the Americas/6th Ave and then turn left. What is on your right?

___________________________________________

Turn right into 5th Ave and turn right onto E 40th St. Walk for 2 blocks and then turn right onto Broadway. What famous area is 3 blocks to the right?

___________________________________________

You fly direct to **Wellington** (New Zealand). Do you know what island are you on?

_____________________________

You catch a train to Wellington Station and then head south on Featherston St. Turn left onto Hunter St and then right onto a street named after a queen.

Turn into Wakefield St and then take your first left. Travel along this till you reach a park. What street does the park face onto?

_____________________________
Take me to the movies

What to do

Look at the cinema plan. Use the clues to find who is sitting where.

The following seats were booked by 6 different people. Read the clues then fill in the table.

**Clue 1** Jack is sitting in E4.

**Clue 2** Molly is 2 rows directly in front of Jack.

**Clue 3** Trent is 2 seats to the left of N3.

**Clue 4** Carly is 12 seats to the right of Molly.

**Clue 5** Brian is on Carly’s left.

**Clue 6** Lim is directly behind Trent.

**Clue 7** Zac is 6 seats to the right of Molly.

**Clue 8** Ella is on Lim’s left.

**Clue 9** Will is in an aisle seat in row 3 in the section on the far right.

<table>
<thead>
<tr>
<th>Name</th>
<th>Seat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molly</td>
<td></td>
</tr>
<tr>
<td>Jack</td>
<td></td>
</tr>
<tr>
<td>Trent</td>
<td></td>
</tr>
<tr>
<td>Brian</td>
<td></td>
</tr>
<tr>
<td>Carly</td>
<td></td>
</tr>
<tr>
<td>Lim</td>
<td></td>
</tr>
<tr>
<td>Zac</td>
<td></td>
</tr>
<tr>
<td>Ella</td>
<td></td>
</tr>
<tr>
<td>Will</td>
<td></td>
</tr>
</tbody>
</table>
Create a design by connecting the coordinates below. Use a sharp pencil and a ruler.

Connect these coordinates, work down each column and tick each one off as you go:

- G1 to I3
- K9 to K11
- C11 to C9
- E3 to G1
- E11 to G7
- I3 to K3
- K11 to I11
- C9 to A7
- I3 to G7
- C9 to G7
- K3 to K5
- I11 to G13
- A7 to C5
- K5 to G7
- C5 to G7
- K5 to M7
- G13 to E11
- C5 to C3
- K9 to G7
- E3 to G7
- M7 to K9
- E11 to C11
- C3 to E3
- I11 to G7