Chapter 11

**Position &
Movement**

Exercise 1

Look at the seating plan for
class 2A1.

Bill	Mary	Jon	Fred
Bob	Tam	Jack	Teri
Dan		Ann	Jim
	Sam	Alice	
Joy		Sally	Harry

Teacher

1.   The teacher is standing in front of his class. He is looking at the boys and girls.

   a   Who sits behind Bob   b   Who sits in front of Alice

   c   Who sits to the right of Jack   d   Who sits to the left of Mary

   e   Who sits 3 seats behind Sally   f   Who sits 2 seats to the left of Jim ?

2.   Joy swaps seats with the person 3 seats behind and 2 to the right of her.

   Who does Joy swap seats with ?

3.   Azi joins the class and sits in "**the empty seat between Ann and Dan**".

   Answer the following questions :–

   a   Who does Azi sit behind ?

   b   Who is Azi sitting in front of ?

   c   Who is Azi sitting to the left of ?

   d   Who is Azi sitting 2 seats in front of   ?

4.   Jack is facing the teacher. Who sits to **Jack's left** ?

Look at how the toys
shown opposite are
sitting on the 3 shelves.

| jeep | taxi | tractor |

| tram | truck | helicopter |

| plane | rickshaw | motorbike |
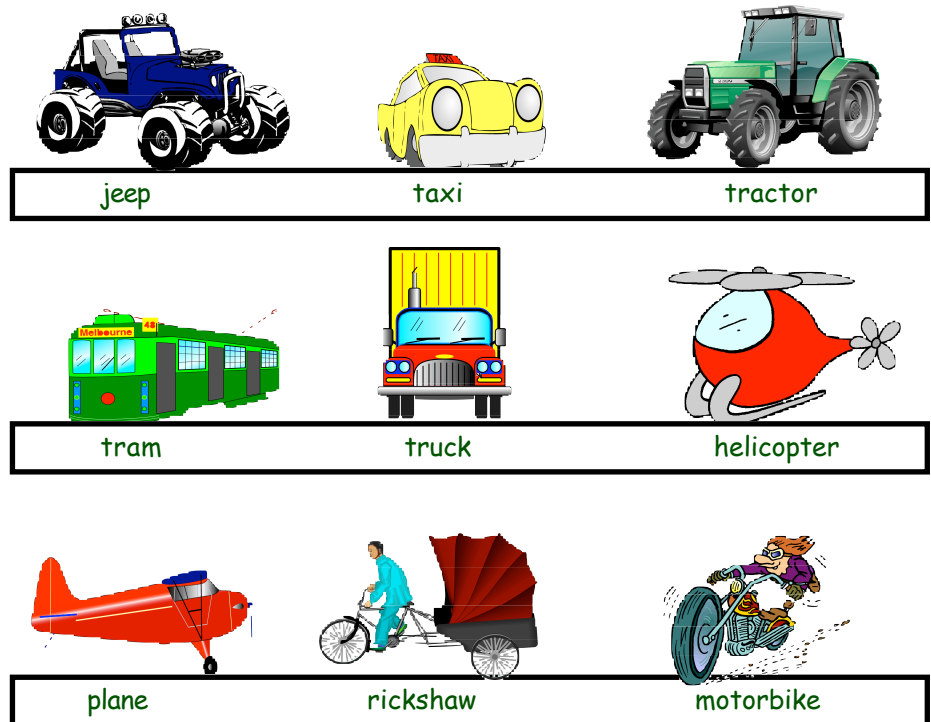
5.   Describe what is :–

   a   1 above the plane   **b**   just to the left of the truck

   c   just below the tractor   **d**   1 up and 2 to the right of the tram.

6.   As you look at the picture, say how you would get from :–

   a   the plane to the motorbike   **b**   the taxi to the tram ?

7.   Lucy sits surrounded by some children.
         Lucy is pointing to Kari.
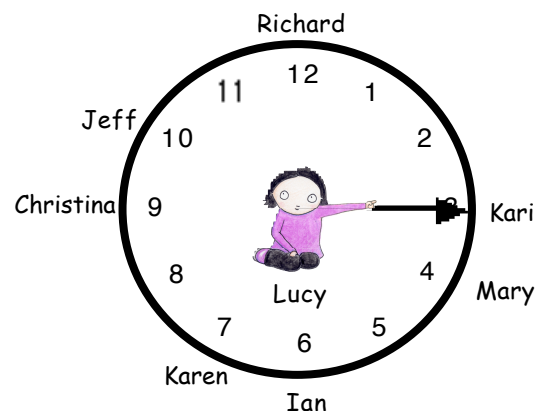
   **a**   From Kari, Lucy makes a
          quarter turn anti-clockwise.

          Who is she now pointing to ?

   b   She points to Jeff and then
          makes a half turn clockwise.

          Who is she now pointing to ?

   c   Describe the turn Lucy has to make to turn :–

          (i) from Christina to Ian.   **(ii)** from Mary to Karen.

Exercise 2

1. Write clear instructions for each pathway through the maze for Ben :–
   (Use words like "forward", "left", "right").

   a   **b**

2. Look at the street map below. It shows a journey taken by Nick :–

   a Copy this sentence. Complete it to show Nick's journey from his house.

   When Nick goes to the Chinese Restaurant he comes out of his house,
   turns ..... along Bond Street, **turns 2nd** ..... into Dale Road, then ...
   .... into Read Street. The restaurant is the **1st building on the** .... .

   Describe how to make each of these journeys in words :–

   b Travel from the Police Station to the Bank.

   c Travel from the School to the Golf Club.

   d Travel from the Bank to the Windmill.

Exercise 3

1. In which direction would Amy end up facing if she was looking :–
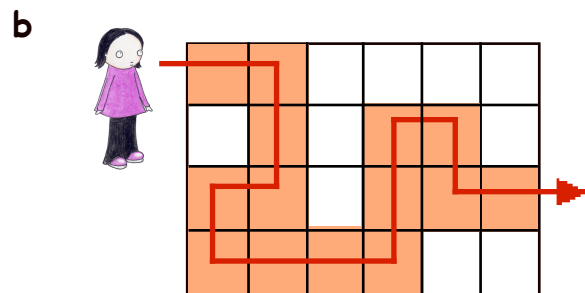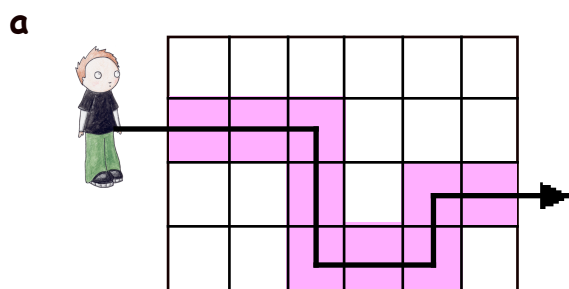
    a   North and turned 90° clockwise ?

    b   South and turned 90° anti-clockwise ?

    c   West and turned 180° ?
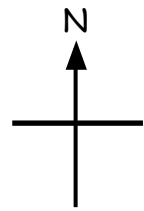
2. How many degrees would Nick have turned through if he was facing :–

    a   South and turned clockwise to face West ?

    b   East and turned anticlockwise to face West ?

    c   North and turned clockwise to face West ?

3. Using compass points guide each child through the maze :–

    a   b

4. a   Draw a 6 by 6 grid like the one shown :–

    b   Draw the path through the maze
         following these instructions :–
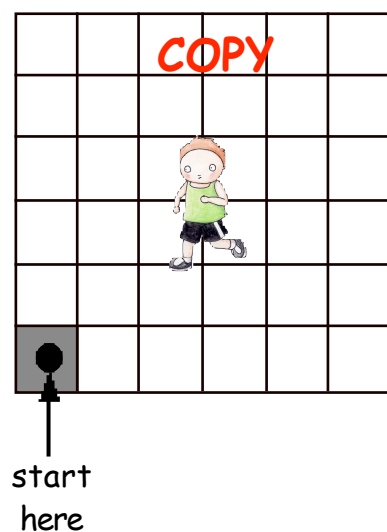
    Go North 4 boxes.

    Go East 2 boxes.

    Go South 3 boxes.

    Go East 3 boxes.

    Go North 2 boxes.

    Go West 1 box.

    Go North 2 boxes and then step out of the maze.

Exercise 4

1. Five toys are shown in a coordinate grid.
    The **hoop** is at position B e.

    Write down the position of the :–

    a   kite

    b   ball

    c   doll

    d   game.
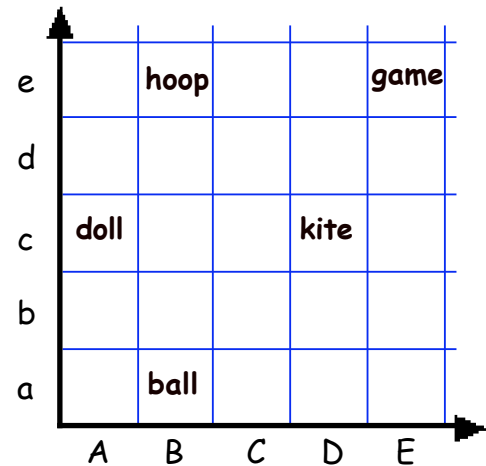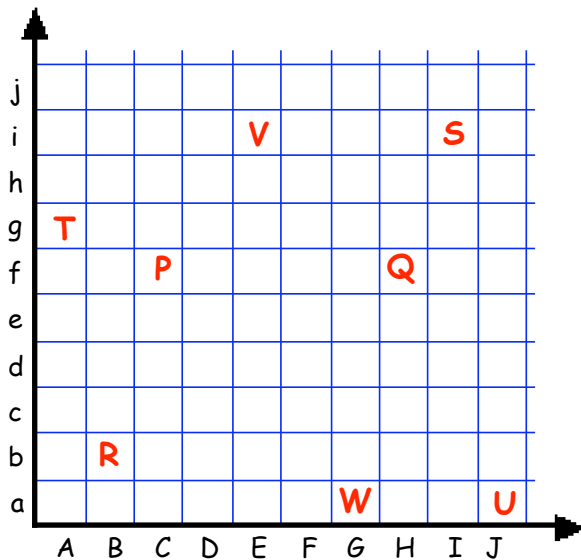
2. This coordinate grid shows the positions of some capital letters.

    Write down the position of each capital letter.

3. The coordinate grid shows the position of eight places of interest :–

    Place of interest ① has position D 2.

    Write down the position of the other places of interest.

4.   Ten children playing hide
     and seek are shown on a
     coordinate grid .

     Dan has position K4.

     Write down the position of :-

     a   Ted   **b**   Fred

     c   Marc   **d**   May

     e   Ben   **f**   Ari

     g   Write down the position
          of the other child.

Exercise 5

Make a coordinate grid for each question.
(You are told the size of each).
Plot each point and join them up in order.

1.   Letters across   -   **A - L**.

     Numbers upwards -   **0 - 12**.

     Set 1 - **F3   D5   D8   F10**.
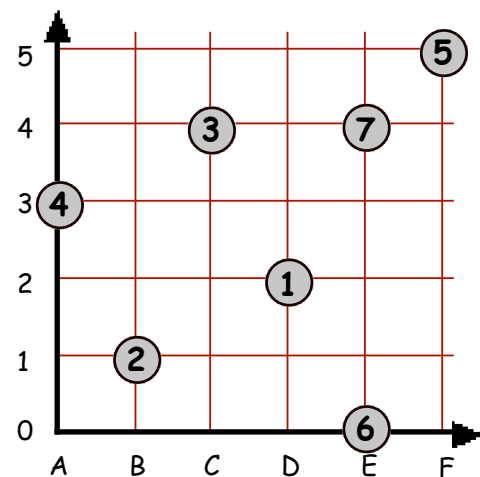
     Set 2 - **F3   I3   K5   K8**.

     Set 3 - **K8   I10   F8**.

     What **mathematical** shape is this ?

2.   Letters across   -   **A - P**.

     Numbers upwards -   **0 - 10**.

     Set 1 - **B2   B9**.   Set 2 - **B5   F5   F9   B9**.

     Set 3 - **L2   L9**.   Set 4 - **I9   O9**

     Paul **T**homson has written his initials in the coordinate code.

     Write **your** initials using coordinate code.

3.   Letters across   -   **A - M**.

     Numbers upwards -   **0 - 12**.

     Set 1 - **H12   D5   L5   C12   H2   H12**.

     What object is this ?

Revision Exercise

Thirty Soldiers (numbered 1 to 30) are
lined up in a parade ground facing forward.

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

front

N

1.   Which soldier is :-

     a   just in front of number **2**

     b   just behind number **22**

     c   just to the left of **23**

     d   3 back and 2 right from **27**

2.   a   Number **15** was looking at **21**. He made a quarter turn anti-clockwise
          What number would number **15** now be facing ?

     b   Number **23** was looking across at number **22**. He then turned to face **17**.
          Describe the turn he must have made in words.

3.   a   Number **20** was looking East. He made a 90° **anti-clockwise** turn.
          What number does **20** now face ?

     b   Number **24** turned from facing number **30** to face number **18**.
          How many degrees did number **24** turn through ?

4.   a   Write instructions to go through the
          maze using left, right, up down etc.

     b   Repeat the instructions using
          points of the compass.

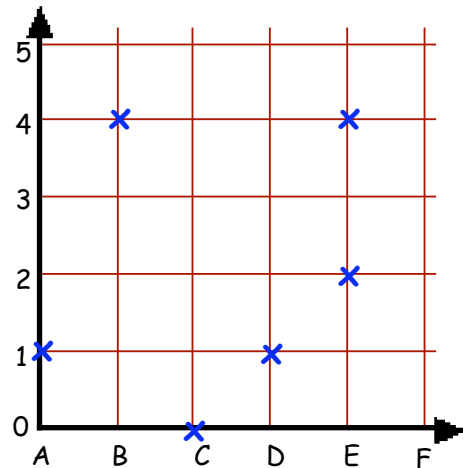**5.**   **X** marks the spot for the treasure.

Five treasure chests are shown
on a coordinate grid.

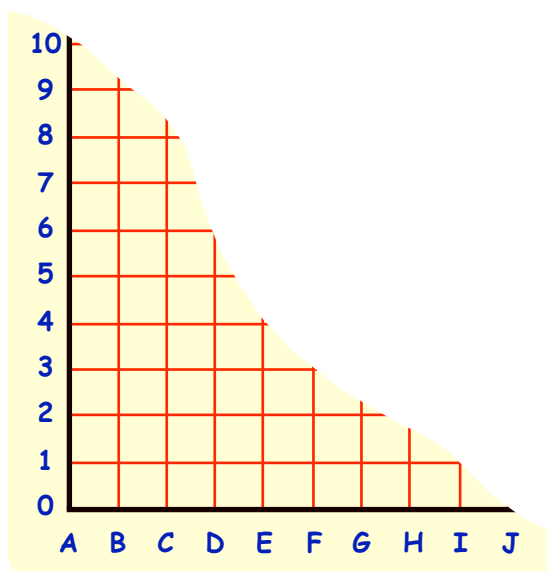Write down the position of
each treasure.
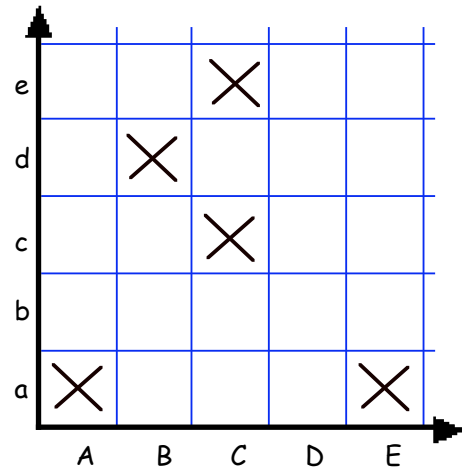
6.   Six treasure chests are shown on
this coordinate grid.

Write down the position
of each treasure.

7.

Letters across   -   **A – S**.
Numbers upwards -   **0 – 20**.

Show the following points on your
grid and join them up :-

Set 1 - **C4   E0   O0   S4   C4**.

Set 2 - **I4   I19   A5   J5**.

Set 3 - **I14   S6   J4   I14**.

Vhat object is drawn ?