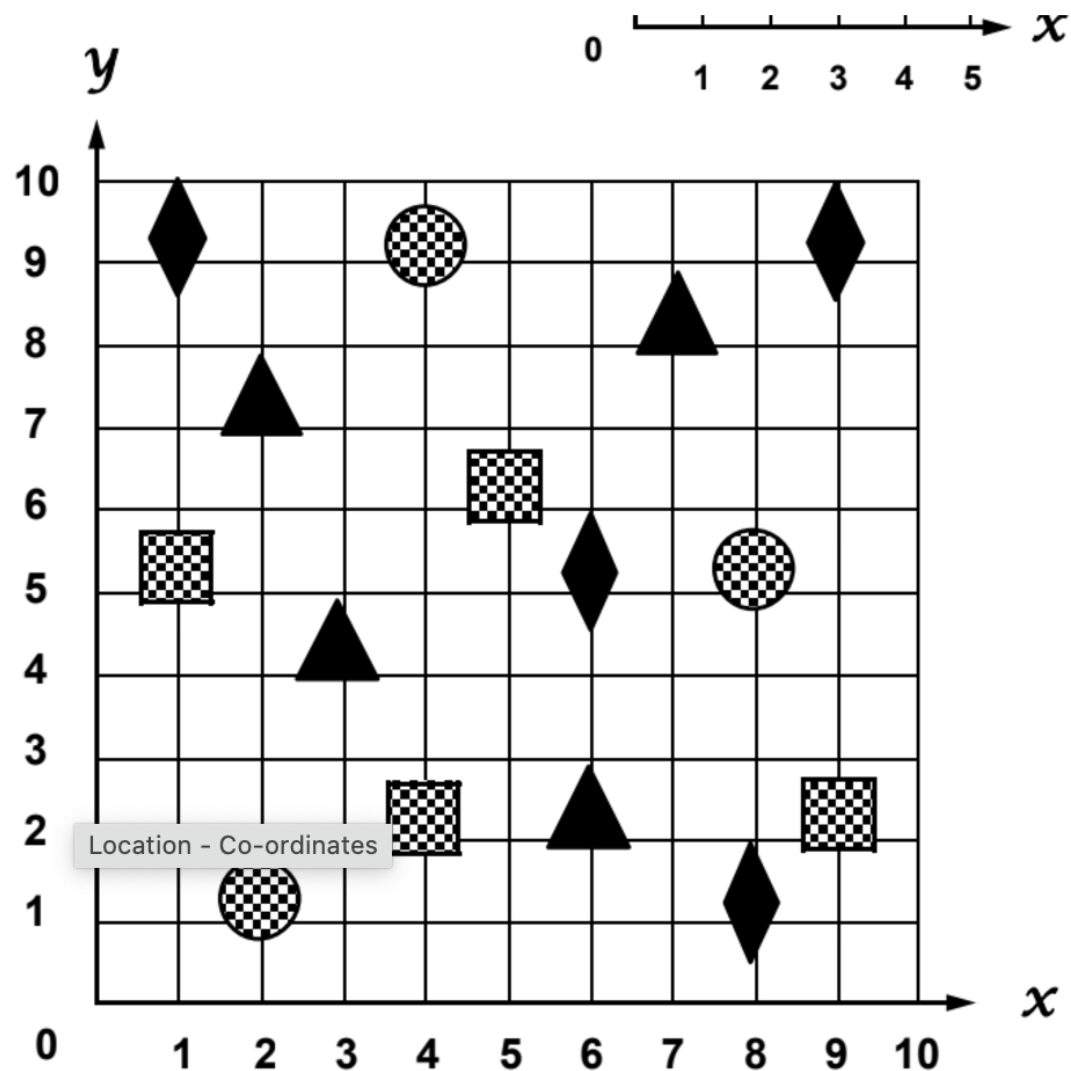


Task 21

On this graph there are various mathematical shapes drawn.

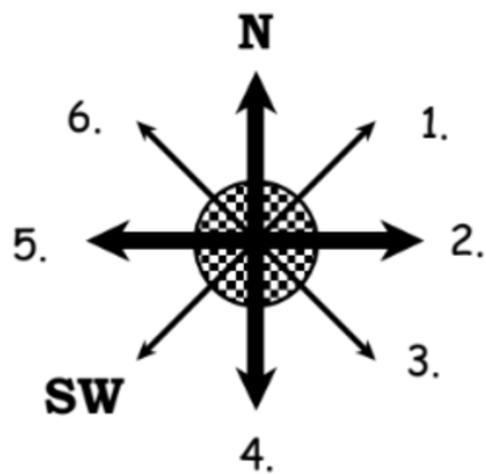
1. What shape is at the point (6,5)?
2. List the co-ordinates to locate all the triangles.
3. List the co-ordinates to locate all the squares.
4. List the co-ordinates to locate all the circles.
5. List the co-ordinates to locate all the diamonds.

y



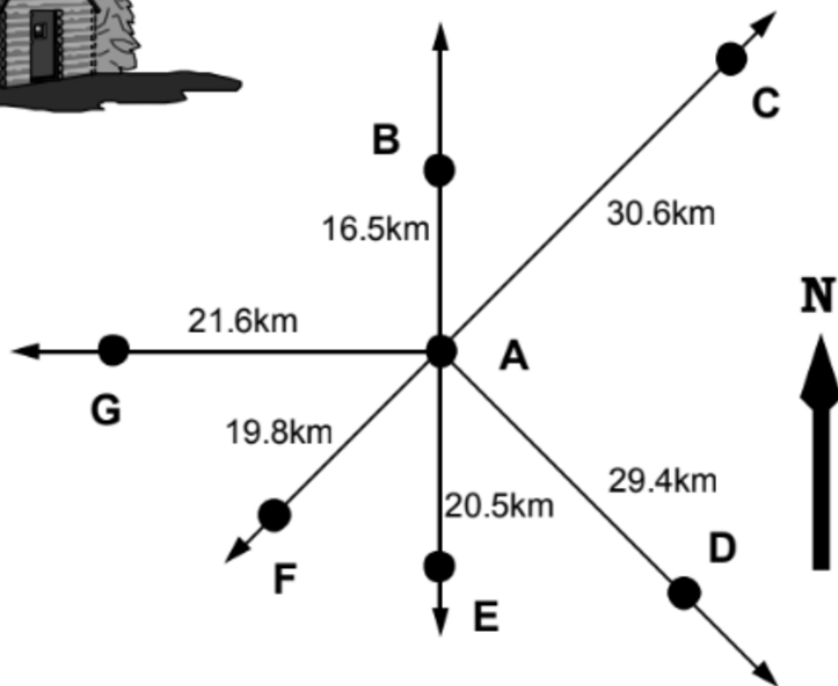
Task 22

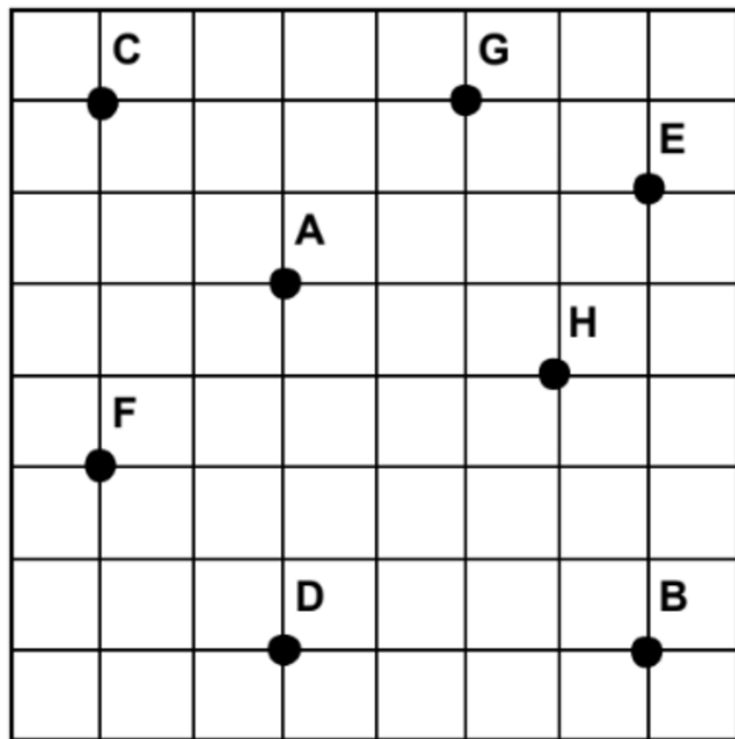
Copy this diagram of a compass and fill in the missing directions numbered 1 to 6.



On this diagram each letter represents a town and the distances between **Town A** and all other towns are shown.

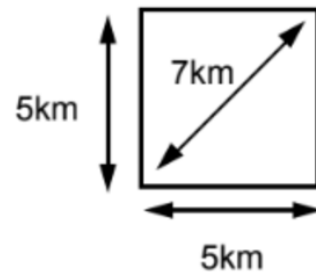
- Which town is 20.5km away from Town A?
- Which town is west of Town A?
- Give the **compass directions** and **distances** required to travel from Town A to all other towns, B to G.





This grid is a scale diagram showing the positions of various towns, represented by the letters A to H. The side of a square represents 5km and the diagonal is 7km.

Example:



The distance from **A** to **B** would be $4 \times 7\text{km} = 28\text{km}$, direction SE.

Calculate the distance and give the direction you would travel to go between the following towns.

- | | | |
|------------|------------|------------|
| 11. B to D | 12. A to D | 13. F to A |
| 14. H to D | 15. B to C | 16. E to B |
| 17. F to C | 18. C to A | 19. G to F |

20. Kelly is going to draw a scale diagram of a school playground area. Using the **compass directions** and a **measuring tape**, she collected the following information.



- The play ground area is 10 metres square.
- Right in the middle is a tower (T).
- 3 metres N of the tower is a slide (S).
- 4 metres east of the tower is a swing (W).
- In the NE corner there is a netball hoop (H).
- 7 metres south of the netball hoop there is a drinking tap (D1).
- In the SW corner there is a basketball hoop (B).
- 6 metres north of the basketball hoop there is another drinking tap (D2).



Use the information that Kelly collected to **draw a plan** of this playground in your maths book.

Use a scale of $1\text{cm} = 1\text{m}$.