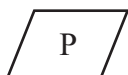


17. Express 60 as the sum of triangular numbers.
18. Explain the hockey stick pattern in the pascal triangle with a neat diagram.
19. Explain about the Fibonacci sequence.
20. Find the value of the variable.
 (i) $2x + 8 = 110$ (ii) $4x + 15 = 27$
21. Find the value.
 $2^0 = \underline{\hspace{2cm}}$.
 $2^1 = \underline{\hspace{2cm}}$.
 $2^2 = \underline{\hspace{2cm}}$.
 $2^3 + 2^0 = \underline{\hspace{2cm}}$.
22. Which of the shapes given below have at least 2 lines of symmetry?



IV. Answer the following: (Any 4) 4 x 5 = 20

23. Write the order of symmetry and the angle of rotation symmetry, for the following figures.

- a)

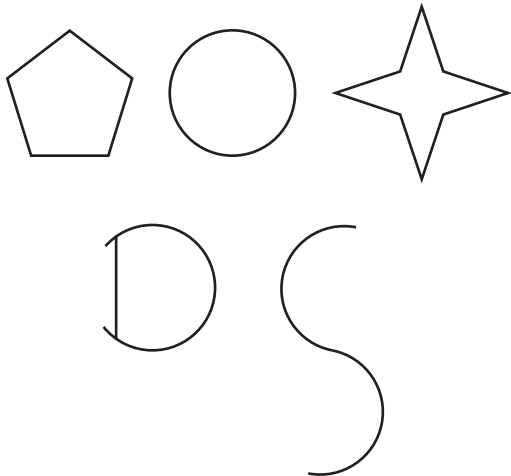
b)

c)

d)

e)

24. Prepare a poster on pascals triangle and highlight any four properties.
25. Draw lines of symmetry for the following figures.



26. What is the sum of the numbers in row 8 of the pascals triangle? Write it as a power of 2.
27. Define Asymmetry, and Illustrate it with an example.