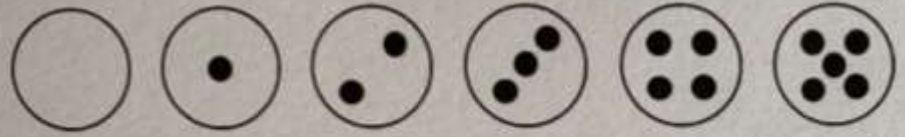
White Rose Maths

Digging Deeper

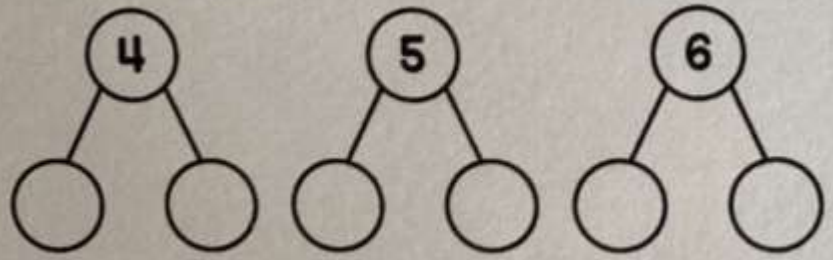
Dot Plates

Provide children with dot plates or cards from 0 to 5



Ask the children to arrange the 6 plates so that they have:

- a pair of plates with a total of 4 dots
- a pair of plates with a total of 5 dots
- a pair of plates with a total of 6 dots



Is there more than one way to solve the problem?

Key Questions

How many dots does each plate have?
How many dots are there on these 2 plates together?
Can you find 2 plates which have (4, 5, 6) dots?
Is there more than one way to make (4, 5, 6) dots?
Can you find more than one way to arrange your 6 plates to make the given total?
What other totals can you make with your plates?

Exploring Possibilities

Jack rolled 2 dice and scored 10

Amir scored less than Jack.
One of Amir's dice showed 5.

What other number **could** Amir have rolled?
Is there more than one answer?
Are there any numbers Amir **could not** have rolled?