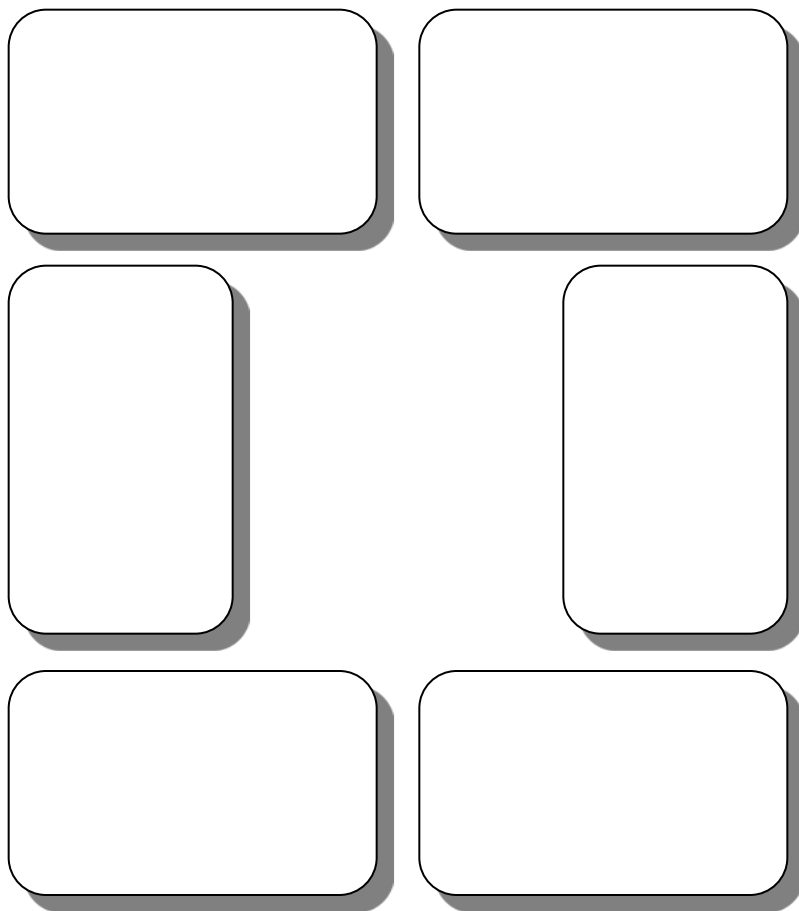


Domino Chain (1)

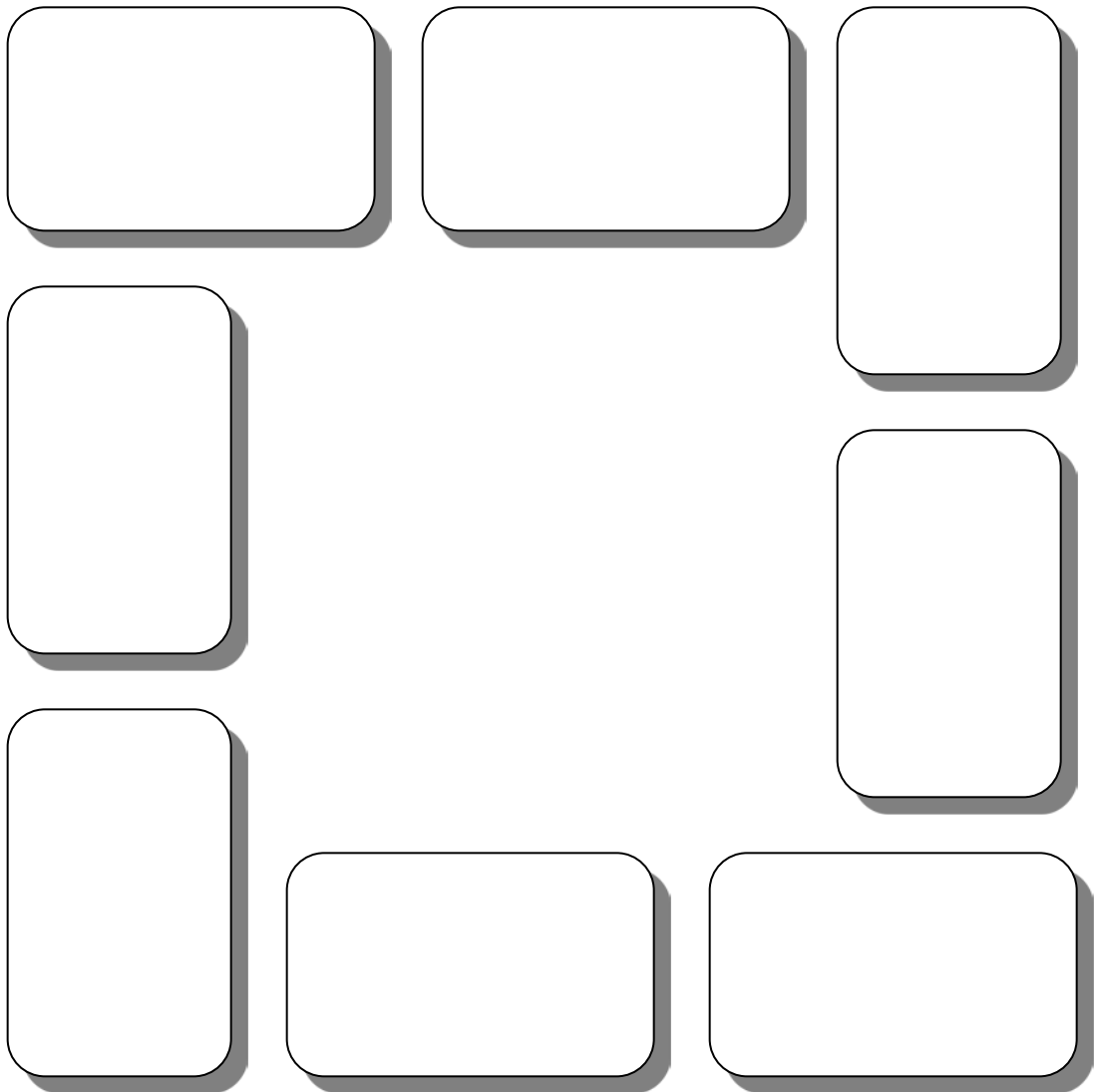
Make a chain that follows
the rules for dominoes?



How many dots
altogether in your chain?

Domino Chain (2)

Make a chain that follows
the rules for dominoes?

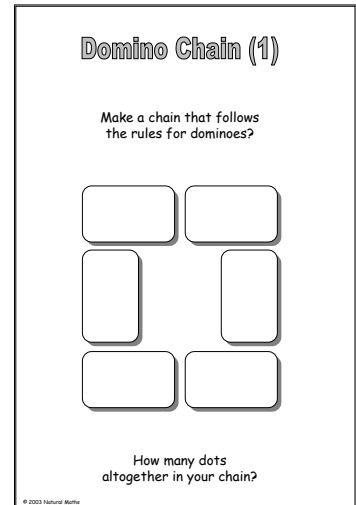


How many dots
altogether in your chain?

Domino Chain (1)

Observe how your child gets started on this problem. Some children will:

- give up after their first attempt stating that it is impossible,
- use a trial and error strategy but not using an incorrect solution to build a correct one,
- think logically about how many dominoes can have the same number of dots at one end,
- start with a double to increase their options,
- use a count all strategy to total the dots,
- use account on strategy to total the dots,
- use number fact strategies to find the total.



Encourage your child to:

- talk about what they can do if they do form an incorrect chain,
- ask your child to talk about the types of counting and number fact strategies that can be used to find the total of their chains.

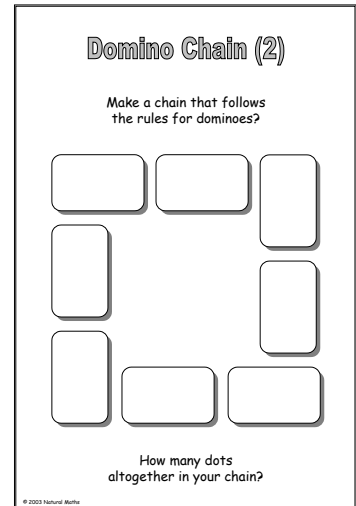
Allow time for your child to investigate, record and prove their answers as well as to ask similar questions of their own.

Challenge your child to find other domino chains and their totals. Ask your child to use a different counting or adding strategy for each one.

Domino Chain (2)

Observe how your child works on this activity. Some children will:

- get close to a solution but have no fix up strategies or perseverance to keep trying,
- select doubles to increase their chances of completing a chain,
- visualise rotations that might solve their problems,
- remove only some parts from an incorrect solution building on the parts that do work,
- persevere with the challenge using a range of fix up strategies as they do so,
- use a count all strategy to total the dots,
- use a count on strategy to total the dots,
- use a combination of strategies to find the total.



Encourage your child to:

- make two sides that work and then use trial and error based on the numbers at each end of the chains to develop a strategy,
- explain quick or smart ways of working out how many dots without having to actually count by ones or count all.

Allow time for your child to investigate, record and prove their answers as well as to ask similar questions of their own.

Challenge your child to find as many different totals for the chains as they can and to keep a record of them for sharing and comparing with chains that you might have found.