

Y1

Cars in Garages

The purpose of the activity is to help your child to:

- Give many “names” for the same number by drawing a picture or using equipment.
- Use a mental image of 5 to work out the missing number in the number pair

Here is what to do:

1. Read the first part of the problem with your child.
2. Get the “equipment” that you will need for the problem, e.g., a box for a garage and 5 identical toy cars. (You could use blocks to represent cars or cut out the ones at the end of this activity).
3. Put 3 cars into the garage without showing) your child. Ask how many are in the garage. Encourage your child to explain their thinking.

How did you know how many cars were hidden?

Tell me about your thinking?

Could there be any other number of cars in the garage when 2 are parked outside?

How do you know?

4. Help your child record their solution. This could be a picture of cars inside or outside the garage, a written story...
5. Help your child record the story as the equation: $2 + 3 = 5$.
6. Read the second part of the problem with your child and give them time to think about the solutions. and have students solve this in pairs or on their own.

You need to use identical cars or there are multiple solutions for each pairing (for example: there would be 5 ways to complete the 1-4 pairing if all the cars were different).

Support your child as they problem solve with questions such as:

How do you know how many cars are parked inside?

Does there always have to be a car in the garage? or parked outside?

How do you know that you have found all the ways that the cars can be parked?

How are you keeping track of the ways that you find?



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Cars in Garages

Problem:

I own 5 cars and a very large garage.

If I can see 2 cars parked outside the garage, how many are inside?

How many different ways can I park my cars inside and outside the garage?



Work it out here: