Hampshire
Services
HIAS SCHOOL IMPROVEMENT

Objective: Number bonds to 20

Year 1 Task:

Eggs in Baskets

Age 5 to 7 ★★

There are three baskets, a brown one, a red one and a pink one, holding a total of ten eggs.

The Brown basket has one more egg in it than the Red basket.

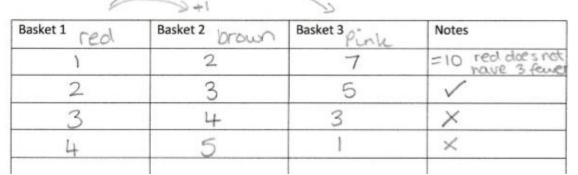The Red basket has three fewer eggs than the Pink basket.

How many eggs are in each basket?

Tips for parents:

- Which basket do you think will have the most/fewest eggs?
- Place the baskets in order of the number of eggs you think they will contain.
- Start with examples meeting one or two criteria and then check for the final criteria and eliminate the possibilities that did not work.
- Work in a systematic way.
- Do the task practically first.
- Try the easier version to start with if children are struggling (see variation)

Worked example

In this example we looked at the criteria for the first and second basket; E.g. if the red basket had 1 egg then the brown must have 2. The final basket must therefore have 7 if the total of eggs are to equal 10. This does not meet the criteria of there being 3 fewer in red basket than the pink or 3 more in the pink than the red though so we eliminate this one.

Basket 1 red	Basket 2 brown	Basket 3 Pink	Notes
1	2	7	=10 red does not have 3 fewer
2	3	5	✓
3	4	3	✗
4	5	1	✗

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Variation

Breaking the problem down: An easier one!

There are three baskets, a brown one, a red one and a pink one, holding a total of ten eggs.

How many eggs could be in each basket?

Challenge

What if there were 20 eggs across the 3 baskets? Can you use your workings for the first question to help you solve it?

Are there different ways?

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