

Eggs in the basket solution

First I wrote out a table like this:

Pink	Red	Brown	Answer
6	3	4	13
5	2	3	10
4	1	2	7

I thought of a number that the pink number could be and then found out the other numbers by using the information.

I also found out that pink can not be less than 4 as then the red will eventually be less than zero and that doesn't match the instructions.

You can also do this problem using algebra see below:

ALGEBRA:

First I made an equation for the following bits of information

- 1. The brown basket has one more egg in it than the red basket.*
- 2. The red basket has three less eggs than the pink basket.*

Let P= the no. of eggs in the pink basket

Let B=the no. of eggs in the brown basket

Let R= the no. of eggs in the red basket

So in total all the baskets had ten eggs between them which equals
 $P+R+B=10$.

$B=R+1$ means brown had 1 more egg than red

$P-3=R$ means that red has 3 less eggs than pink

Then you write out the equation:

$$P+R+B=10$$

Then remove P and make it R+3

$$R+3+B-1+B=10$$

Then remove B and make it B-1

$$B-1+3+B-1+B=10$$

Now simplify and finish like a normal equation

$$3B+1=10$$

$$3B+1-1=10-1$$

$$3B=9$$

$$3B/3=9/3$$

$$B=3$$

Therefore $B=3$

$R=B-1$

$R = 3-1$

$R = 2$

$P=R+3$

$P=5$

Which means

$B=3,R=2,P=5.$

Why would you bother to use algebra?

You would bother to use algebra because it is a good way to use the Skill seeing that we don't often get to practice then skills that we learn in primary school.

Algebra also has the power to cover every possible answer and that way we don't have to list all the possibilities.