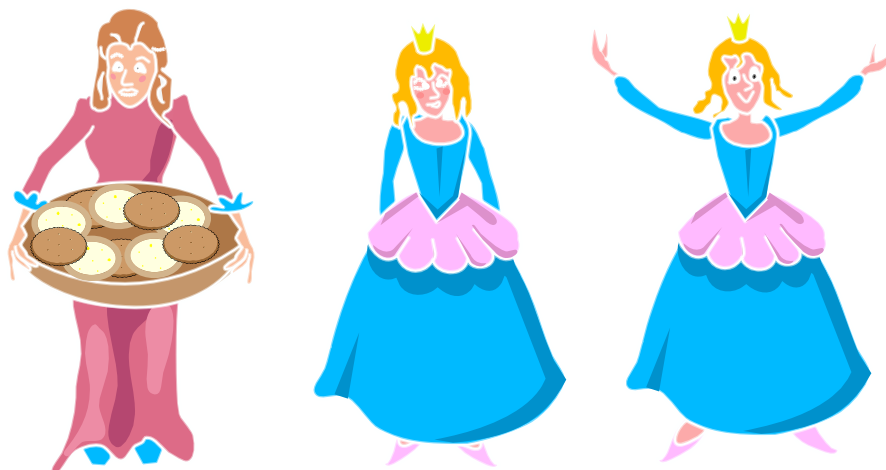


## Pass the Biscuits

Three princesses stood in a line.  
The first princess was holding a tray of  
10 biscuits.



The first princess takes a biscuit and passes the tray on.  
The second princess takes a biscuit and passes the tray on.  
The third princess takes a biscuit but does not pass the  
tray on.

How many passes are there to get the tray to the third  
princess?

How many biscuits are left on the tray?

What happens if there are 4 princesses in the line?  
(or 5 or 6 or 7 ...)

### Learning and Teaching Objectives

- Use practical resources to continue the pattern
- Describe a rule of a pattern or relationship in words or pictures
- Predict the next few terms in a sequence to test the rule

## Pass the Biscuits Solution

Number of princesses	1	2	3	4	5	6	7	8	9	10
Number of passes	0	1	2	3	4	5	6	7	8	9
Number of biscuits left on the tray	9	8	7	6	5	4	3	2	1	0

Provide opportunities for children to model this problem with appropriate resources.

Several number patterns develop within the problem for children to explore and predict.

Could extend problem by each princess taking two biscuits.