

PEACHES



Story 1 A generous little monkey had some peaches.

On the first day he gave half his peaches away and ate one.

On the second day he gave away half of the rest and ate one.

On the third day he gave away half of the rest and ate one.

On the fourth day he found there was only one left.

How many did he have at the beginning?

Story 2 Another generous little monkey who liked mathematics had 60 peaches.

On the first day he decided to keep $\frac{3}{4}$ of his peaches.

He gave the rest away then he ate one.

On the second day he decided to keep $\frac{7}{11}$ of his peaches.

He gave the rest away then he ate one.

On the third day he decided to keep $\frac{5}{9}$ of his peaches.

He gave the rest away then he ate one.

On the fourth day he decided to keep $\frac{2}{7}$ of his peaches.

He gave the rest away then he ate one.

On the fourth day he decided to keep $\frac{2}{3}$ of his peaches.

He gave the rest away then he ate one.

How many did he have left at the end?

HELP

You could work backwards to solve Story 1

| Day | Number eaten and saved | Number given away | Number at start of day |
|-----|------------------------|-------------------|------------------------|
| 4 | | | 1 |
| 3 | | | |
| 2 | | | |
| 1 | | | |

NEXT

Peaches Today, Peaches Tomorrow



A monkey has 75 peaches. Each day, he kept a fraction of his peaches, gave the rest away, and then ate one.

These are the fractions he decided to **keep**:

$$\frac{1}{2} \quad \frac{1}{4} \quad \frac{3}{4} \quad \frac{3}{5} \quad \frac{5}{6} \quad \frac{11}{15}$$

In what order did he use the fractions so that he was left with just one peach at the end?

nrich.maths.org

[Click here for a pdf](#) of this NRICH poster.