



## Problem of the Week

### Problem B and Solution

### Bookity-Book!



#### Problem

Patrick is reading a book about forest animals. He has read  $\frac{3}{4}$  of the 100 pages in his book. Nicholas has read  $\frac{2}{3}$  of the 120 pages of his book about alpine flowers.

- Who has more pages left to read in his book?
- To finish his book, Patrick reads five full pages per day, every day. If Nicholas also reads a certain number of full pages every day, how many pages per day must he read in order to finish his book on the same day as Patrick finishes?

#### Solution

- Since Patrick has read  $\frac{3}{4}$  of his book, he has  $\frac{1}{4}$  left to read, or  $\frac{1}{4}$  of  $100 = 25$  pages left.

Since Nicholas has read  $\frac{2}{3}$  of his book, he has  $\frac{1}{3}$  left to read, or  $\frac{1}{3}$  of  $120 = 40$  pages left.

Thus Nicholas has more pages left to read.

- Reading at 5 pages per day, it will take Patrick  $25 \div 5 = 5$  days to finish his book.

To finish his 40 pages in 5 days, Nicholas will have to read  $40 \div 5 = 8$  pages per day in order to finish his book on the same day.

