

Multiple Dates

On January 1, 2011, the Petersons began a new allowance program for their four children:

Every third day, beginning January 3, Adrian will get his allowance.
Every fourth day, beginning January 4, Beth will get her allowance.
Every fifth day, beginning January 5, Zoe will get her allowance.
Every seventh day, beginning January 7, Eddie will get his allowance.

- 1** What is the first day that Adrian and Beth will get their allowances on the same day?

- 2** What is the first day that Beth and Zoe will get their allowances on the same day?

- 3** What is the first day that Adrian and Eddie will get their allowances on the same day?

- 4** What is the first day that Adrian, Beth, and Zoe will get their allowances on the same day?

- 5** **Stretch Your Thinking** How many days will it be until all four children will get their allowances on the same day? Explain.

