

## Section 10.2 Math Link

This worksheet will help you with the Math Link on page 364.

- Outline a  $3 \times 3$  square on the calendar.
- Write the numbers in the grid below.


<i>December</i>						
S	M	T	W	T	F	S
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

- What is the sum of all the numbers in your  $3 \times 3$  square? \_\_\_\_\_
- Repeat using a different  $3 \times 3$  square.


- What is the sum of the numbers in your new square? \_\_\_\_\_
- Look at the middle number in each square. Describe an easy way to find the sum of each  $3 \times 3$  square using the middle number.

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- Use  $m$  to represent the middle number. Write an expression in relation to  $m$  for the sum of all the dates in a  $3 \times 3$  square.

\_\_\_\_\_  $\times m =$  sum of all the numbers in a  $3 \times 3$  square

- Record the numerical coefficient in your expression from #7. You will use this number to uncover the mystery pattern at the end of the chapter. \_\_\_\_\_