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# Calendar Moves

There are lots of interesting questions about calendars.  
Here is a calendar for a month.

JULY						
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			

Here are some kinds of words that will help you answer questions.

**Direction words:** left, right, up, down

**Calendar words:** today, yesterday, tomorrow, last week, this week, next week

**Arithmetic words:** add, subtract

## 1. $\downarrow$ Arrows

Here are two examples of what a  $\downarrow$  arrow means on the calendar.

JULY						
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
	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			

$2\downarrow$  is 9.

JULY						
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
	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			

$16\downarrow$  is 23.

a. You figure these out:

$3\downarrow$  is \_\_\_\_\_.       $11\downarrow$  is \_\_\_\_\_.       $24\downarrow$  is \_\_\_\_\_.

b. Using a **direction word**, tell what the  $\downarrow$  arrow does.

c. Using a **calendar word**, tell what the  $\downarrow$  arrow does.

d. Using an **arithmetic word**, tell what the  $\downarrow$  arrow does.

e. What do you think  $26\downarrow$  should mean? Give a reason for your answer.

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f. What else could  $26\downarrow$  mean?

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## 2. ← Arrows

Here is an example of what a ← arrow means on the calendar.

JULY						
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
	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			

19← is 18.

a. You figure these out:

5← is \_\_\_\_\_.      23← is \_\_\_\_\_.      30← is \_\_\_\_\_.

b. Using a **direction word**, tell what the ← arrow does.

c. Using a **calendar word**, tell what the ← arrow does.

d. Using an **arithmetic word**, tell what the ← arrow does.

**e.** What do you think  $14\leftarrow$  should mean? Give a reason for your answer.

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**f.** What else could  $14\leftarrow$  mean?

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### 3. $\uparrow$ arrows and $\rightarrow$ arrows

Can you figure out what is meant by  $\uparrow$  arrows and  $\rightarrow$  arrows?

a. You figure these out:

$23\uparrow$  is \_\_\_\_\_.       $27\uparrow$  is \_\_\_\_\_.

$18\rightarrow$  is \_\_\_\_\_.       $9\rightarrow$  is \_\_\_\_\_.

b. Tell what  $\uparrow$  arrows and  $\rightarrow$  arrows do by filling in this chart:

	$\uparrow$ arrow	$\rightarrow$ arrow
What the arrow means, using a <b>direction word</b>		
What the arrow means, using a <b>calendar word</b>		
What the arrow means, using an <b>arithmetic word</b>		

#### 4. Multiple arrows

You can also do one arrow followed by another arrow.

JULY						
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
	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			

$2\downarrow\downarrow$  is 16.

JULY						
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
	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			

$16\downarrow\rightarrow$  is 24.

a. You figure these out:

$22\uparrow\uparrow$  is \_\_\_\_\_.       $4\rightarrow\rightarrow$  is \_\_\_\_\_.

b. Try these:

$21\downarrow\uparrow$  is \_\_\_\_\_.       $13\uparrow\downarrow$  is \_\_\_\_\_.

Tell what happened with your answers, and explain why it happened.

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c. You figure these out:

$14 \uparrow \rightarrow$  is \_\_\_\_\_.  $6 \downarrow \leftarrow$  is \_\_\_\_\_.  $26 \uparrow \leftarrow$  is \_\_\_\_\_.

**d.** Try these:

$11 \downarrow \rightarrow$  is \_\_\_\_\_.  $11 \rightarrow \downarrow$  is \_\_\_\_\_.

Tell what happened with your answers, and explain why it happened.

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## **5. Different calendars**

Now let's see if arrows mean the same thing on every calendar.

- a.** Look back at what  $23\leftarrow$  was on the July calendar on page 4. Now look at a classroom calendar for a different month.

Does  $23\leftarrow$  turn out to be the same on your classroom calendar? If not, why not?

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- b.** Look back at what  $24\downarrow$  was on the July calendar. Does it turn out to be the same on your classroom calendar? If not, why not?

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**c.** Make up an arrow problem whose answer on your classroom calendar is different from the answer on the July calendar.

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