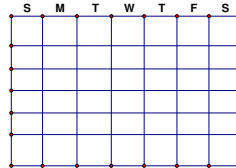
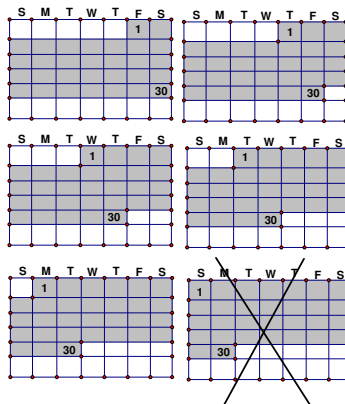


- There are 28 days in February. So there are four even weeks of seven days in February. If the first day of February is Thursday, then the last day is Wednesday, and the first day of March is also Thursday.
- If three days ago was Monday, then today is Thursday. An easy fact to remember is that each year, all the days shift forward by one. For instance, if Jan. 1 is a Monday this year, Jan. 1 will be a Tuesday next year, and a Wednesday the year after that, etc. So if today is Thursday, then the day 365 days from now is a Friday.
- To do a problem like this, make a timeline that has spaces for today, tomorrow, yesterday, day after tomorrow, day before yesterday, and so on. Start with your pen on Today. Then jump back two days to Day Before Yesterday, and then jump forward 6 days and label that day Thursday. Then count how many jumps back it takes to get to Day After Tomorrow. There are two jumps, so it is two days before Thursday. So the Day After Tomorrow is Tuesday.
- Tuesday
- Monday
- Wednesday
- To do this problem, first draw a little calendar on your paper. The calendar should have spaces for six weeks, seven days in each week, like this.



Since June has 30 days, it has four complete weeks and two extra days. So we fill in our calendar with 30 days keeping it so that only four Sundays are used.



Thus the only days that can never be the 30th are Sunday or Monday. (Note: the answer key was incorrect. If you put the correct answer but got marked wrong, please see Dr. Li or the TAs for correction.)



Math Olympiad and Problem Solving Programs

F130 - Advanced Problem Solving

Problem Set 2.2 - Calendars

Name:

Date:

8. January has 101, 111, 121, and 131.
9.
10. $100 \div 7 = 14 + R2$. Since there is a remainder of 2 days left after the fourteen seven-day weeks, the funeral is two days after Thursday, so it is on .