

## Practice: Working with Dates

The file **Elapsed Time.jmp** includes start dates and end dates.

1. Open the column info windows for **Start Date** and **End Date**. Which data formats have been applied?

**Start Date** has the Date Abbrev data format, and **End Date** has the m/d/y data format.

2. Create a new formula column with the day of the month for **Start Date**.

Right-click the column head for **Start Date**, and select **New Formula Column, Date and Time**, and then **Day**.

3. Use **New Formula Column** to create a formula with the elapsed time between **Start Date** and **End Date**. What is the value in the first cell for this new column?

Select both **Start Date** and **End Date**. Right-click the column head for one of the columns, select **New Formula Column, Combine**, and then **Difference** (reverse order). Dates are stored as seconds, so the value in the first cell is 345600 seconds.

4. Look at the formula in the column **Elapsed Time**. What does this do?

The formula in the **Elapsed Time** column calculates the elapsed time in days. There are 60 seconds in a minute, 60 minutes in an hour, and 24 hours in a day.

5. Look at the formula in the column **Elapsed Time 2**. What does this do?

This formula uses the Date Difference function to calculate the elapsed time in days. It produces the same values as the Elapsed Time formula.

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