

# Problem-Solving Strategy: Work Backward

Use the questions to help you solve.

1. A sixth-grade class makes a documentary about animals. The film begins at 6:00 P.M. with a 4-minute introduction. The next section is about pets. Then comes a discussion of wild animals, which is twice as long as the first section. The film ends with a 6-minute conclusion at 7:10 P.M. At what time does the discussion of wild animals begin?

**UNDERSTAND**

When does the film begin and end?  
\_\_\_\_\_

What information is given about the length of each section of the documentary?  
\_\_\_\_\_

**PLAN**

How will working backward help you solve this problem?  
\_\_\_\_\_

**SOLVE**

How long is the documentary? _____	How long are the sections about pets and wild animals together? _____
How long is the section about pets? _____	What time will the discussion of wild animals begin? _____

**LOOK BACK**

How can you check your answer?  
\_\_\_\_\_

2. The class finished their documentary on May 15th. They spent one week editing the final version. Filming the footage took twice as long as editing. Researching the material before filming took twice as long as filming. On what date did the students begin their research?

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