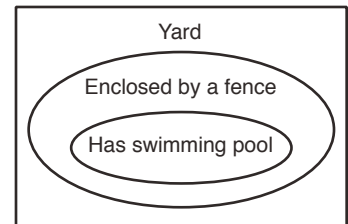


LESSON **2-2** **Problem Solving**
Conditional Statements

1. Write the converse, inverse, and contrapositive of the conditional statement.
Find the truth value of each.

If it is April, then there are 30 days in the month.

2. Write a conditional statement from the diagram. Then write the converse, inverse, and contrapositive. Find the truth value of each.



Use the table and the statements listed. Write each conditional and find its truth value.

p : 1777 q : 30 stars r : after 1818 s : less than 50 stars

U.S. Flag	
Year	Number of Stars
1777	13
1818	20
1848	30
1959	50

3. $p \rightarrow q$ _____
- _____
4. $r \rightarrow s$ _____
5. $q \rightarrow s$ _____

Choose the best answer.

6. What is the converse of "If you saw the movie, then you know how it ends"?
- A** If you know how the movie ends, then you saw the movie.
B If you did not see the movie, then you do not know how it ends.
C If you do not know how the movie ends, then you did not see the movie.
D If you do not know how the movie ends, then you saw the movie.
7. What is the inverse of "If you received a text message, then you have a cell phone"?
- F** If you have a cell phone, then you received a text message.
G If you do not have a cell phone, then you did not receive a text message.
H If you did not receive a text message, then you do not have a cell phone.
J If you received a text message, then you do not have a cell phone.