

Math Domain

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|---|--------------------------------------|-----------------------------------|
| <input type="checkbox"/> Number/Quantity | <input type="checkbox"/> Shape/Space | <input type="checkbox"/> Function |
| <input checked="" type="checkbox"/> Chance/Data | <input type="checkbox"/> Arrangement | |

Math Actions (possible weights: 0 through 4)

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|--|--|
| <input type="checkbox"/> 0 Modeling/Formulating | <input type="checkbox"/> 0 Manipulating/Transforming |
| <input type="checkbox"/> 3 Inferring/Drawing Conclusions | <input type="checkbox"/> 3 Communicating |

Math Big Ideas

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|--|---|--|
| <input type="checkbox"/> Scale | <input checked="" type="checkbox"/> Reference Frame | <input type="checkbox"/> Representation |
| <input type="checkbox"/> Continuity | <input type="checkbox"/> Boundedness | <input type="checkbox"/> Invariance/Symmetry |
| <input type="checkbox"/> Equivalence | <input type="checkbox"/> General/Particular | <input type="checkbox"/> Contradiction |
| <input type="checkbox"/> Use of Limits | <input type="checkbox"/> Approximation | <input type="checkbox"/> Other |

1. Most students will pick Thursday because there are no other activities going on, and the temperature is the highest of any of the remaining days. However, some students may suggest going to the beach after the soccer game on Tuesday, as this is the hottest, sunniest day; this is a less appropriate answer.
2. Tuesday and Friday are explicitly eliminated because of the activities mentioned in the story. Sunday, Monday and Saturday are eliminated because of the rainy or cloudy weather and low temperatures shown on the weather chart. Wednesday and Thursday have the same amount of sun, but the temperature on Wednesday is considerably lower than on Thursday.

	partial level (1 or 2)	full level (3)
Modeling/ Formulating (weight: 0?)		
Transforming/ Manipulating (weight: 0)		
Inferring/ Drawing Conclusions (weight: 3)	Student is able to interpret some of the given data, in order to make a decision on a suitable day.	Student uses all of the given data to make a decision, using both the story and the weather chart. Evident is careful consideration of why the other days will not work.
Communicating (weight:3)	Student does not give justification for choice in question 1 , and/or does not explain why each of the other days was not suitable in question 2 .	Student gives a complete justification for choosing a certain day, including a description of the weather. The unsuitability of each of the other days is described clearly and completely.