## Lesson 14: Fraction Comparison Problems

* Let’s solve different kinds of fraction comparison problems.

### Warm-up: Number Talk: Multiples of Ten

Find the value of each expression mentally.

### 14.1: Mystery Fractions

Six friends are each given a list of 5 fractions. They each chose one fraction quietly and wrote clues about their choice. Use their clues to identify the fractions they chose.

|  |
| --- |
| Andre: |
| * less than 1 * greater than * less than |

|  |
| --- |
| Tyler: |
| * greater than * less than 1 * less than |

|  |
| --- |
| Clare: |
| * greater than * less than * greater than 1 |

|  |
| --- |
| Diego: |
| * greater than * less than 1 * greater than |

|  |
| --- |
| Elena: |
| * greater than * less than 1 * greater than |

|  |
| --- |
| Noah: |
| * greater than * less than * greater than |

### 14.2: Distances on Foot

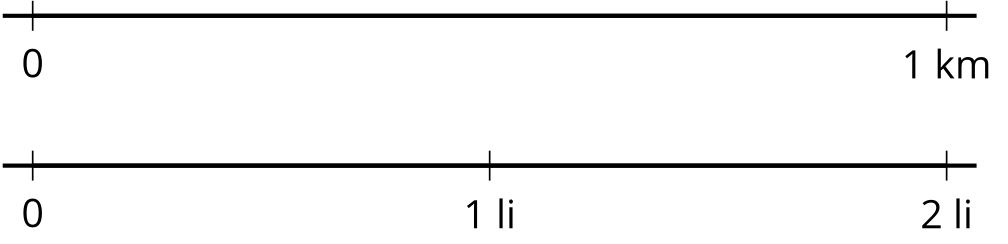
In China and some East Asian countries, the unit “li” is used for measuring distance.

Here are the walking distances between the home of a student in China and the places he visits regularly.

* school: li
* library: li
* market: li
* badminton club: li



1. Which is a shorter distance from the student’s home:
   1. His school or the library?
   2. The market or the badminton club?
   3. The library or the market?
2. A student in America walks kilometer (km) to school. These number lines show how 1 kilometer compares to 1 li.

* 
* Which student walks a longer distance to school? Use the number lines to show your reasoning.

1. Explain why we can’t just compare the fractions and to see which student walks a longer distance.



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