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| **NC.3.MD.3****Planning a Field Trip** |
| **Domain** | Measurement and Data |
| **Cluster** | Solve problems involving measurement. |
| **Standard(s)** | **NC.3.MD.3** Represent and interpret scaled picture and bar graphs:• Collect data by asking a question that yields data in up to four categories.• Make a representation of data and interpret data in a frequency table, scaled picture graph, and/or scaled bar graph with axes provided.• Solve one and two-step “how many more” and “how many less” problems using information from these graphs |
| **Materials** | Field trip handout, pencils, colored pencils (optional), calculators |
| **Task** | **Part 1:*** Distribute Planning a Field Trip handout.
* Draw students’ attention to data and graph on handout.

* Read: *The third graders are planning a field trip. In order to decide if they should go to the mountains or the beach, students from each class took a survey about their favorite activity. Organize the data on the graph.*

**Part 2:*** Read: *Use your graph to answer each question.*
1. *How many more students prefer mountain activities than beach activities?*
2. *How many students were surveyed?*
3. *What question do you have that could be answered from the data collected?*
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| **Rubric** |
| **Level I**Not Yet | 1. **Level II**
2. Progressing
 | **Level III**Meets Expectations |
| * Student is unable to graph data on the graph.
* Student does not identify the number of students who prefer mountain activities over beach activities.
* Student is unable to identify the number of students surveyed.
 | Student does 1-2 of the following:* organizes data on graph with a few inaccuracies
* identifies that 9 more student prefer mountain activities than bean activities
* identifies that 45 students were surveyed
 | * Student correctly organizes data on graph (sledding: 15, skiing: 12, swimming: 8, surfing: 10).
* Student identifies that 9 more student prefer mountain activities than bean activities.
* Student identifies that 45 students were surveyed.
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| **Standards for Mathematical Practice** |
| **1. Makes sense and perseveres in solving problems.** |
| **2. Reasons abstractly and quantitatively.** |
| 3. Constructs viable arguments and critiques the reasoning of others. |
| **4. Models with mathematics.** |
| **5. Uses appropriate tools strategically.** |
| **6. Attends to precision.** |
| 7. Looks for and makes use of structure. |
| 8. Looks for and expresses regularity in repeated reasoning. |

**Planning a Field Trip**

The third graders are planning a field trip. In order to decide if they should go to the mountains or the beach, students from each class took a survey about their favorite activity. Organize the data on the graph.



**Class A’s Favorite Activities**

 Sledding: 7

 Skiing: 5

 Swimming: 6

 Surfing: 3

**Class B’s Favorite Activities**

 Sledding: 8

 Skiing: 7

 Swimming: 2

 Surfing: 7

**Use your graph to answer each question.**

1. How many more students prefer mountain activities than beach activities?

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1. How many students were surveyed?

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1. What question do you have that could be answered from the data collected?

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