**BLM 6.SP.1.3: Prior Knowledge**

Mini is doing a project on measurement. First, she measured every object that she possibly could. Then she started observing shadows. Mini noticed that the shadow of her dad’s van was not the same size all the time, so she decided to measure it at different times of the day. Here are some of the measurements she took.

10 o’clock in the morning 30 cm long shadow

11 o’clock in the morning 15 cm long shadow

12 o’clock, noon 0 cm long shadow

1 o’clock in the afternoon 15 cm long shadow

2 o’clock in the afternoon 30 cm long shadow

3 o’clock in the afternoon 45 cm long shadow

Mini made a line graph to show her data collection.

1. Make a line graph using Mini’s shadow measurement data to show what you think Mini’s graph looks like.
2. Mini used measurements to collect data for her graph. What other methods of collecting data do you know of?
3. Why do you think Mini used a line graph?
4. How long do you think the shadow was at 10:30 in the morning?
5. How long do you think the shadow was at 2:30 in the afternoon?
6. If you measured the shadow of your bicycle would the shadow measurements of your bicycle be shorter, the same size, or longer? Explain your answer.