## Lesson 15: Problem Solving with Line Plots

* Let’s solve problems using a line plot.

### Warm-up: Number Talk: Multiply by 18

Find the value of each expression mentally.

### 15.1: Info Gap: Picking Fruit

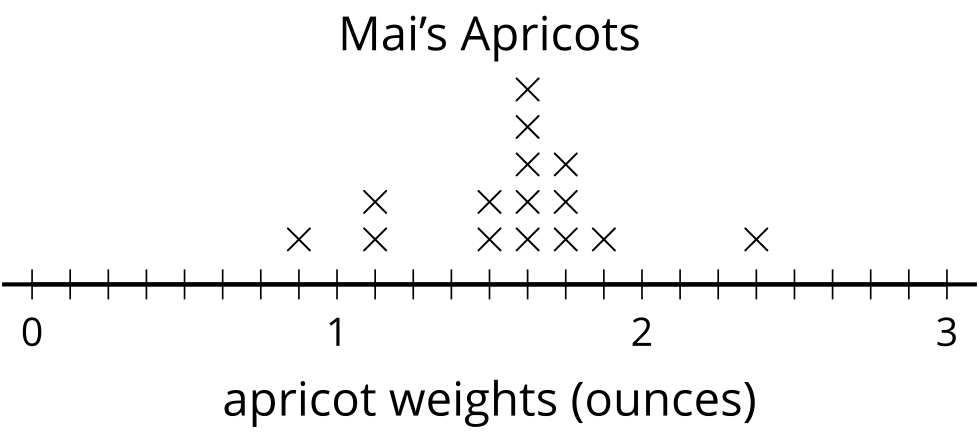
Your teacher will give you either a problem card or a data card. Do not show or read your card to your partner.

Pause here so your teacher can review your work.

Ask your teacher for a new set of cards and repeat the activity, trading roles with your partner.

### 15.2: Mathematical Questions

This line plot shows the weights of some apricots that Mai picked.



1. What fraction of the apricots weigh less than ounces? Explain or show your reasoning.
2. Write a multiplication equation that represents the total weight of the apricots that each weigh ounces.
3. Do all of Mai’s apricots together weigh more or less than a pound? Explain or show your reasoning.

### Section Summary

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In this section we learned to add and subtract fractions. When the denominators are the same, such as , we can just add the tenths and see that there are 11 of them so . When the denominators are not the same, such as , we look for a common denominator so that we can add parts of the same size. One way to find a common denominator is to use the product of the two denominators, , because that’s always a multiple of both denominators. Using 48 as a denominator we find . This means . For the expression we can also use a smaller common denominator. Since is a multiple of 6 and 8 we can also rewrite as which is .



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