

Homework

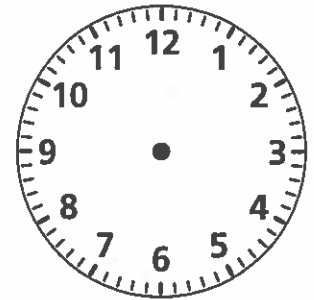
Write an equation to solve each problem.

1. Suppose you are bicycling along a straight road that suddenly starts sloping up a hill. You want to know what the angle measure of the slope is, but you can't measure inside the hill.

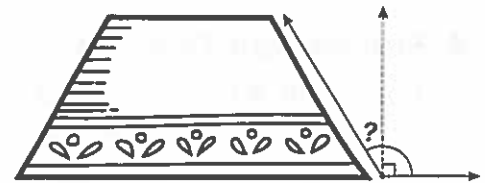


If you are able to measure the angle on top of the road, however, you can use an equation to find the unknown measure. What is the angle of the slope of the hill shown?

2. On the clock face shown at the right, draw clock hands to show the times 3:00 and 5:00. One clock hand for each time will overlap with a clock hand from the other time. What is the difference between the measures of the angles formed by the hands of the clocks for the two times? (Hint: There are 30° between each pair of numbers on a clock.)
- _____



3. A lampshade is often sloped, with the top narrower than the bottom. For the lampshade shown, the whole angle shown is 122° . Find the measure of the unknown angle to find by how much the lampshade is sloped from upright.
- _____



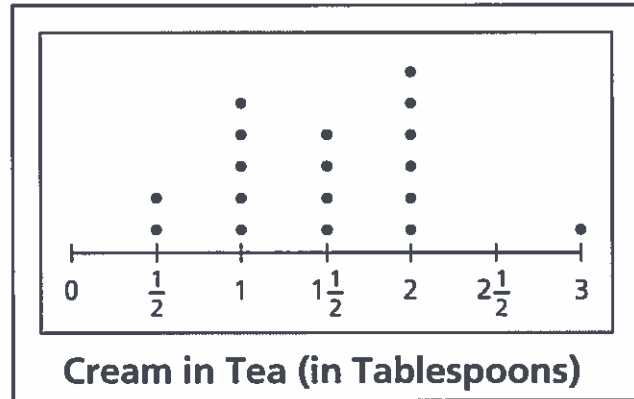
Remembering

The line plot shows the amount of cream put in a cup by each of a restaurant's lunch customers who ordered hot tea. Use the line plot for Problems 1–3.

1. How many customers ordered hot tea?

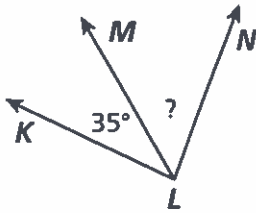
2. How many customers used more than 1 tablespoon of cream?

3. What is the difference between the greatest and least amount of cream the customers used?



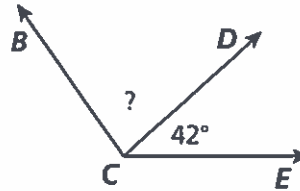
Use an equation to find the unknown angle measure.

4.



The measure of $\angle KLN$ is 85° .

5.



The measure of $\angle BCE$ is 125° .

6. **Stretch Your Thinking** Hannah says that when the hands on a clock show 9:30, the angle is 90° . Jennie says the angle is obtuse. Who is correct? Explain. Make a drawing to show which girl is correct.
