Problem Solving: Relative Size

Solve. Explain why your answer makes sense.

1. Leon is making a cake. He plans to measure the flour to the nearest hundredth of a cup. Is a measure to the nearest hundredth of a cup too precise or not precise enough for the situation?

2. Pauline is making a picture frame using 4 pieces of cardboard. She measures each piece to the nearest inch. Is a measure to the nearest inch too precise or not precise enough for the situation?

3. A sports drink bottle says it contains 12 ounces of the drink. If the bottle actually contains 12.03 ounces of drink, does that mean that the label is wrong?

4. Mark is making lemonade. The instructions say to mix one packet of lemonade powder with a gallon of water. Is it important if Mark uses 1.4 gallons of water?

5. Describe a situation where 1.6 minutes might seem like a long time. Describe a situation where 1.6 minutes might seem like a short time.

6. Describe a situation where 0.8 miles might seem like a long distance. Describe a situation where 0.8 miles might seem like a short distance.