Chapter 10

Lesson 8

Name _____ Date _____

Analyzing Measurement Data

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Now that your class has collected and graphed data about the lengths of students' arms, use the graph to answer these questions about the data.

1. What is the shortest arm length in your class? _____ inches

2. What is the longest arm length in your class? _____ inches

3. Which arm lengths showed up most frequently in your measurement data? _____ inches

4. What is the range of arm lengths in your class? _____ in. to _____ in.

5. How many students are in your class? _____ students

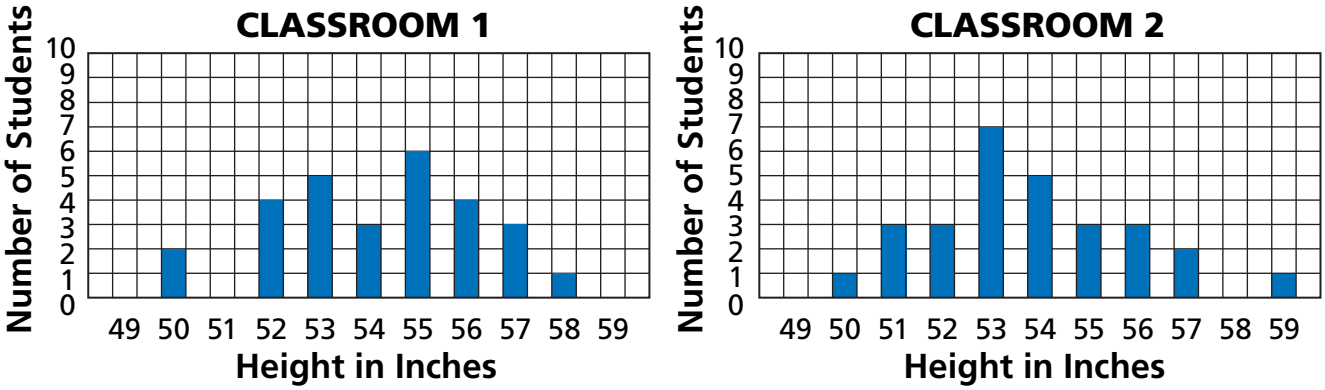
6. How many students have arms that are 20 inches long? _____ students

7. If you picked a student at random from your class, what is the probability that the student's arms would be exactly 20 inches long? _____

8. How many students have arms that are 40 inches long? _____ students

9. If you picked a student at random from your class, what is the probability that the student's arms would be 40 inches long? _____

Use these graphs to compare the data from two classrooms.



10 How many students are in each classroom? _____ students

11 How tall is the shortest student in each classroom?

Classroom 1 _____ Classroom 2 _____

12 In each classroom, half the students are as tall or taller than what height?

Classroom 1 _____ Classroom 2 _____

13 If you picked a student at random from each class, what is the probability that the student would be 53 inches tall?

Classroom 1 _____ Classroom 2 _____

14 **Challenge** You measure the height of a student in one of the classrooms. What can you be certain will be true about the measurement?

_____

_____