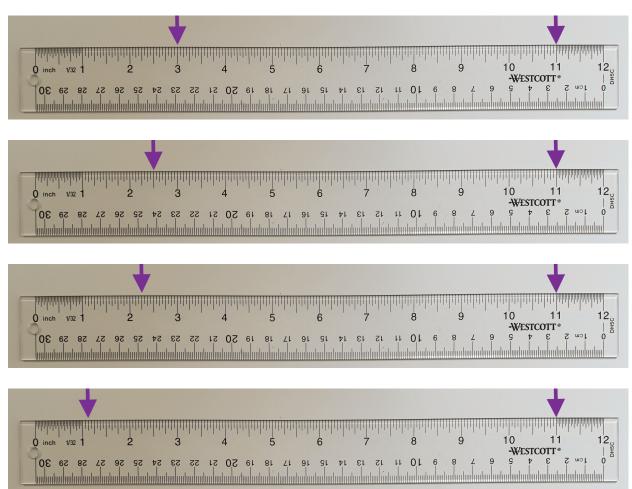
Unit 1 Lesson 16: Compare & Contrast

1 Math Talk: Measuring Up (Warm up)

Student Task Statement

What is the distance between the markings?

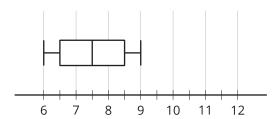


2 Compare & Contrast

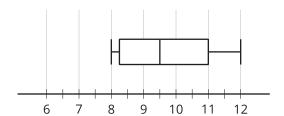
Student Task Statement

Here are the shoe sizes from two cohorts in the military.

Cohort A:



Cohort B:



- 1. Is there any overlap between the two data sets? Explain your reasoning.
- 2. Which cohort has more variability?
- 3. Does at least one person from cohort A have a bigger shoe size than someone from cohort B? Explain your reasoning.
- 4. Compare the measures of center.

3 Compare & Contrast Continued

Student Task Statement



Here are the shoes sizes of some grade 9 and grade 12 students.

Grade 9 shoe sizes:

6	8	6.5	7.5	7	6.5	9	6	8.5
7.5	8	10	11	8	9			

Grade 12 shoe sizes:

10	9	10.5	8.5	10	9	9.5	8	8
11	9	9.5	11	10.5	8.5			

1. Create a box plot, dot plot, or histogram to represent both sets of data.

2. Describe the distribution shapes.

3. Complete the table.

	mean	median	IQR	standard deviation
grade 9 shoe sizes				
grade 12 shoe sizes				

- 4. Does one grade's shoe sizes have more variation than the other? Explain how you know.
- 5. Compare the measures of center for the two sets of shoe sizes.
- 6. Do the distributions overlap? Use the data display you created to explain how you know.