



# **Multi-State Alternate Assessment**

## **Mathematics Grade 11 Sample Items**

Session 1 - Item 1

This item is about finding the mean of a set of data.

The mean is the average of the numbers in a set of data.

This data table shows the number of algebra problems Chris did for homework each of 4 days last week.

### Number of Algebra Problems

<b>Day</b>	<b>Number of Problems</b>
Monday	5
Tuesday	4
Wednesday	5
Thursday	6

To find the mean, add all of the values in the list and divide the sum by the number of values.

To find the mean number of problems, first add all of the values.

$$5 + 4 + 5 + 6 = 20$$

Then divide the sum by the number of values. There are 4 values, so divide 20 by 4.

$$20 \div 4 = 5$$

The mean number of problems is 5.

This is another data table.

This data table shows the number of magazine articles Jan read each of 4 days last week.

### **Number of Magazine Articles**

<b>Day</b>	<b>Number of Articles</b>
Monday	4
Tuesday	2
Wednesday	4
Thursday	6

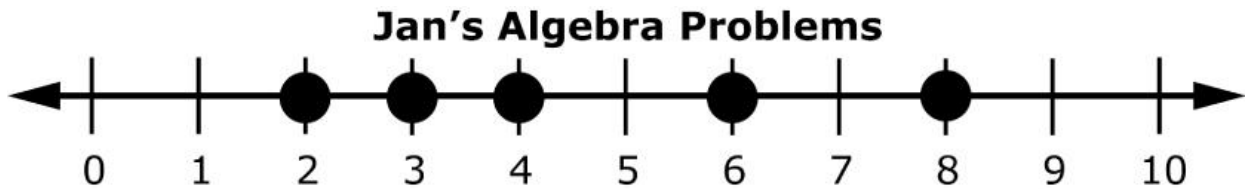
What is the mean number of articles Jan read each day last week?

- 4 articles
- 6 articles
- 16 articles

Session 1 - Item 2

This item is about a number line.

This is a number line.



The least value is farthest to the left on the number line.

The greatest value is farthest to the right on the number line.

Jan does algebra problems. The dots on the number line show how many algebra problems Jan did in each of her math classes last week.

What is the greatest number of algebra problems Jan did in math class last week?

- 2
- 8