

Applying Standard Form to Linear Functions Task

Name: _____

Use the scenario below to answer questions 1-6.

Students rented buses and vans to go attend a Science and Math Day at Adventureland. There were 8 vans and 12 buses for the 360 students.

1. Define variables that represent the unknown quantities in the problem. Then write an equation that can be used to find the number of students in each van and bus if all 360 students attend.

2. Using the equation, calculate the x and y intercepts of the equations. Show all your work.

3. What do the intercepts mean in terms of the problem situation? Use complete sentences in your answer.

4. If 12 students rode in each van, how many students rode in each bus?

5. If 26 students rode in each bus, how many students rode in each van?

6. Write the equation from Question 1 in slope intercept form.