Inspiring Greatness

INDEPENDENCE SCHOOL DISTRICT

Math Virtual Learning

Algebra 1 S1

Students will review systems of linear equations word problems.

May 1, 2020

Algebra I S1
Lesson: May 1, 2020

Objective/Learning Target:

Student will review systems of linear equations word problems.

WHAT HAVE YOU LEARNED

VIDEO: Solving systems of equations three ways

https://www.youtube.com/watch?v=Xl0pBGb3PQQ

PRACTICE-word problems (1-4)

Systems of Equations Word Problems Date_____ Period____

1) Find the value of two numbers if their sum is 12 and their difference is 4.

2) The difference of two numbers is 3. Their sum is 13. Find the numbers.

3) Flying to Kampala with a tailwind a plane averaged 158 km/h. On the return trip the plane only averaged 112 km/h while flying back into the same wind. Find the speed of the wind and the speed of the plane in still air.

4) The school that Stefan goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 3 senior citizen tickets and 1 child ticket for a total of $38. The school took in $52 on the second day by selling 3 senior citizen tickets and 2 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.

PRACTICE-word problem solutions

VIDEO SOLUTION TO NUMBERS 1-4

https://www.youtube.com/watch?v=OxYKabqmi4c

PRACTICE-word problems (5-8)

5) The sum of the digits of a certain two-digit number is 7. Reversing its digits increases the number by 9. What is the number?

6) A boat traveled 210 miles downstream and back. The trip downstream took 10 hours. The trip back took 70 hours. What is the speed of the boat in still water? What is the speed of the current?

PRACTICE-word problems (5-8)

7) The state fair is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 8 vans and 8 buses with 240 students. High School B rented and filled 4 vans and 1 bus with 54 students. Every van had the same number of students in it as did the buses. Find the number of students in each van and in each bus.

8) The senior classes at High School A and High School B planned separate trips to New York City. The senior class at High School A rented and filled 1 van and 6 buses with 372 students. High School B rented and filled 4 vans and 12 buses with 780 students. Each van and each bus carried the same number of students. How many students can a van carry? How many students can a bus carry?

PRACTICE-word problem solutions

VIDEO SOLUTION TO NUMBERS 5--8

https://www.youtube.com/watch?v=uiNfc5Ax7uk