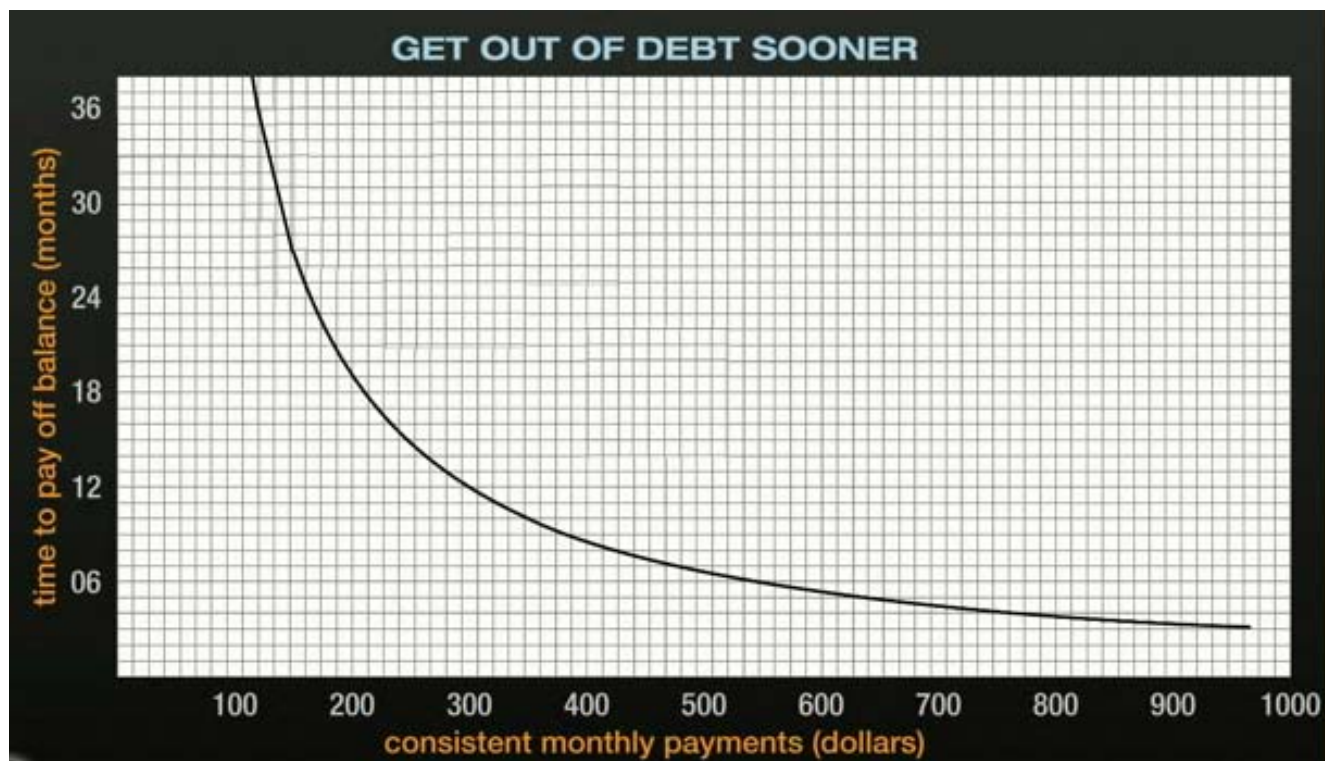# PROBLEM SOLVED

MAKING SENSE OF MATHEMATICS

1. Study the following graph from the video. Describe the relationship between the consistent monthly payments and the time it takes to pay off the balance.
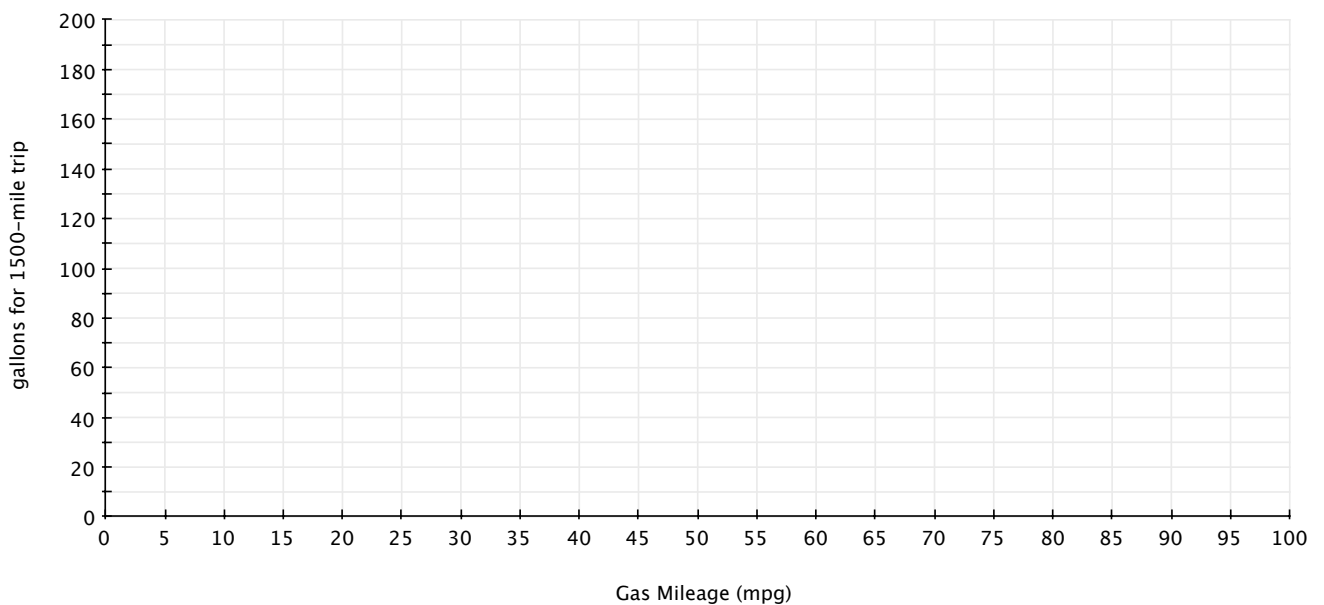

GET OUT OF DEBT SOONER

time to pay off balance (months) vs *consistent monthly payments (dollars)*

2. Name scenarios that result in an inversely proportional relationship.

MakingSense

3. The following table gives the gas mileage for a variety of vehicles. You are going to take a 1500-mile trip. Approximately how many gallons of gas would you need for the different vehicles?

a. Complete the following table:

Vehicle	Ford Fiesta	Mazda2	Rolls-Royce Phantom Couple	Ford F-250 Lariat	Chevrolet Volt Electric	Toyota Tacoma	Smart Fortwo Electric Drive Coupe
Gas Mileage (mpg)	40	35	18	10	90	25	79
Gallons for 1500-mile trip							

b. Plot the points from the above table:

c. Write an equation that relates the gas mileage (*m*) to the gallons of gas (*g*) it would take to travel 1500 miles.

d. Explain how you know this is an inversely proportional relationship.

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