



Gordon Burgin's Puzzles

August 2022 challenge

Challenge 1

A ship is battling against the tide to safety. It uses 7 gallons of fuel every hour and sails at 17 mph in still conditions. It is 77 miles from safety and the flow against it is 6 mph. The ship has 49 gallons of fuel left. Will it reach safety?

Challenge 2

When 4 is added to two numbers, the ratio is 5:6. When 4 is subtracted from the two numbers, the ratio is 1:2. Find the two numbers.

Challenge 3

An unknown airplane flying with a speed of 700 mi/hr is detected 1000 miles away by a radar. Half an hour later an interceptor plane flying with a speed of 800 mi/hr is dispatched. How long will it take the interceptor plane to meet with the unknown plane