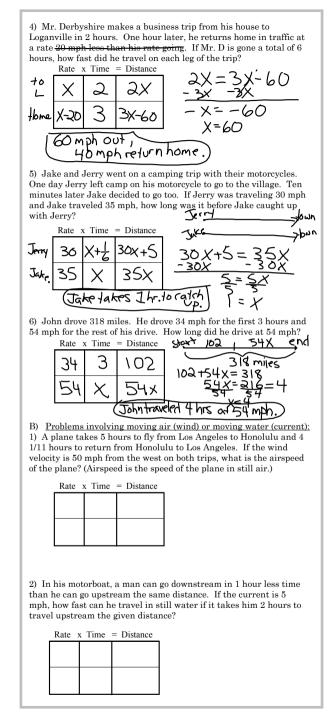
Examples of time, rate, and distance problems:

A)_Problems on land: 1) A freight train starts from Los Angeles and heads for Chicago at 40 mph. Two hours later a passenger train leaves the same station for Chicago traveling at 60 mph. How long will it be before the passenger train overtakes the freight train? Rate x Time = Distance 40 X+ 80= 60x F 40 XчQ 40x+80 -40x -40X 80=20X Ρ 60 X 60x 20 20 4hrs 40= X 2) A car leaves San Francisco for Los Angeles traveling an average of 70 mph. At the same time, another car leaves Los Angeles for San Francisco traveling 60 mph. If it is 520 miles between San Francisco and Los Angeles, how long before the two cars meet, assuming that each maintains its average speed? <F 60X 4A 70X Rate x Time = Distance 520 +0 70 70x 520 = 70X + 60XLA X to SF 60x 60 Х 130 130 4 =X 4 hours. 3) Two planes leave New York at 10 am, one heading for Europe at 600 mph and one heading in the opposite direction at 150 mph. (So it isn't a jet!) At what time will they be 900 miles apart? How far has each traveled? Calif. NY 600X 150x Rate x Time = Distance to Europp 600X 200 900 miles 150X 150 X Opp. =150X+600X The triplakes 1 hr. 12 mins. Distance or 2 * naurs

Title: Jan 9-9:11 AM (1 of 2)



Title: Jan 9-9:13 AM (2 of 2)