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if the first person does a job in time a a second person does a job in time b and together they can do a job in time t total we can use the work rate equation $\frac{1}{a} + \frac{1}{b} = \frac{1}{t}$ a job per time a 1 b job per time b 1 t job per time t

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distance problems are word problems that involve the distance an object will travel at a certain average rate for a given period of time the formula for distance problems is distance rate time or $d = r \cdot t$ things to watch out for make sure that you change the units when necessary

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the key to solving rate problems is to figure out the context of the problem and then identify a formula that relates all of the information in the problem in this problem our context is distance we have two objects traveling at different rates and in opposite directions we can relate all of the information using the simple formula distance

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rate problems in this math lesson we learn to find unit rates and use them to solve problems we first calculate the rate for one unit like cars washed per day or cost per battery then we multiply the unit rate by the desired quantity to find the answer

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solution to problem 2 the rates of pumps a and b can be calculated as follows a 1 6 and b 1 8 let r be the rate of pump c when working together for 2 hours we have $2 \frac{1}{6} + 2 \frac{1}{8} = 2r$ solve for r $r = \frac{1}{4} + \frac{1}{8} = \frac{3}{8}$ rate of pump c let t be the time it takes pump c used alone to fill the tank

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chapter 6 8 rate word problems speed distance and time pre calculus distance rate and time problems are a standard application of linear equations when solving these problems use the relationship rate speed or velocity times time equals distance for example suppose a person were to travel 30 km/h for 4 h

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