DiRT

When we solve problems involving Distance and Time we use the formula

Distance = Rate x Time (d = rt)

For example

Suppose Joe travelled 5 miles at 20 miles per hour. Sue travelled 5 miles at 50 miles per hour. What was their average rate of speed?

First we use the DIRT formula with Joe

d= rt 5 = 20t

So t = 5/20 = ¼

Then we use the formula for Sue

D = rt 5 = 50t

 So t = 5/50 = 1/10

Then if we combine the whole trip

d = rt Total distance = rate x total time

10 = r (1/4 + 1/10)

10 = r (7/20)

10 \* 20/7 = r

R = 28.57