Speed, Density Exercise

Bill drove from A to B a distance of 86 km
in 1 hr 30min, He drove from B to C in 2 hr 20mm
at a speed of 90 km/hr. He drove from C to B
a distance of 100 km at 80 km/h.

Find his average speed from A to D

Average Speed = Total Distance
Total Time

Speed Time Distance

A >B

I h 30 m 86 km

R > C

R > C

R > C

R > Km/h

C > D

R > Km/h

Totals

Totals

Totals

Time

Distance

Distance

26 km

26 km

210 km

210 km

396 km

396 km

396 km

Averge Spred = 396 = 77.9 Kulhr

How long in hours and nineter would be a 593 km journey travelving at 112 km/hr

Time = $\frac{3ist}{spect}$ = $\frac{593}{114}$ = 5.20175 hrs

To convert 5.20175 hrs into hows and minuted first subtract the 5 hrs on calculator to leave 0-20175 of an hour. Multiply this by 60 to term into minutes

0-20175 +60 = 12.105 So 12 Kin

Denistry A compand D is made from A, R and C

50s of A is used which has density 4.2 g/cm³

100g of B is used which has volume 36 cm³

85 cm³ of C is used which has density 2.5 g/cm³

Find the density of compand D

Total Max

Density = Total Volume

Density Mars Vol A 4.2 s/cr³ 50g 11.905 cm³ R 100g 36 cr³ C 2.5g/cr³ 212.5g 85cr³ 70 fels 362.5g 132.405 cm?

Density = $\frac{M}{V} = \frac{362.5}{132.905}$ Density = 2.73 g/cm³

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