

3 Puzzle

In $\frac{AC}{B} = D$ and $\frac{BA}{C} = D$, each of the letters stands for a different digit.

Paulo guessed that $\frac{AC}{B} = D$ might be $\frac{24}{8} = 3$ which would mean that $A = 2$, $B = 8$, $C = 4$ and $D = 3$. Then $\frac{BA}{C} = D$ would be $\frac{82}{4} = 3$, but this is not correct so the values Paulo guessed for A, B, C and D were not correct.

Try to work out what these are.

- a If $\frac{AC}{B} = D$ and $\frac{BA}{C} = D$. Find A, B, C and D .
- b If $\frac{PQ}{Q} = T$ and $\frac{QP}{R} = T$ and $\frac{TQ}{S} = S$ and $\frac{PS}{Q} = R$. Find P, Q, R, S and T .

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