

ZMATH 2008d.00259

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Sum = Product.

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Summary: Whilst scaling some Cumbrian mountains recently a property of the number 6 was noted by a fellow walker, namely that $6 = 1 + 2 + 3 = 1 \times 2 \times 3$. I was challenged to prove that this is the only triplet of positive integers whose product equals its sum. It reminded me of the Pons Asinorum, as there cannot be many candidates. Here are some thoughts as they kept me awake in the early hours of the next morning.

Classification: F60

Keywords: number theory; proofs; arithmetic; integers; diophantine equations