

**ZMATH 2016f.00767**

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**The 20 matchstick triangle challenge: an activity to foster reasoning and problem solving.**

Aust. Math. Teach. 71, No. 1, 9-17 (2015).

Summary: This article looks at a simple geometry problem that also involves some reasoning about number combinations, and show how it was used in a Year 7 classroom. The problem is accessible to students with a wide range of abilities, and provides scope for stimulating extensive discussion and reasoning in the classroom, as well as an opportunity for students to think about how to work systematically. (ERIC)

*Classification:* D80 K20

*Keywords:* activities; problem solving; reasoning; combinations