Welcome to this week's Maths Challenge!

Solutions must be explained in detail, responses with just the answer may be ignored.

Drop your solution in the box in the staffroom by Tuesday.

Year 8 and below

Some molten rhenium is being poured into three containers, A, B and C. Container A gets 1 litre plus one third of what is left. Container B then receives 6 litres plus one third of what remains, then Container C gets the rest which is 40 litres. What is the volume of rhenium poured into Container B?

Year 8 and above

The diagram contains four squares. The smallest square has an area of 5 cm^2. Find the area of the shaded triangle.

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