Problems of the Day *Day 4 Answers*

1 What are the missing digits?

3		+		5	=	1	1	1

The ones in the numbers on the left must add up to either 1 or 11 if the answer ends in 1. Since one of the numbers added is a 5, the two ones must add up to 11. The first number must have 6 ones, so it must be 36.

If the first number is 36, then the second number must be 111 -36 = 75

So the missing digits are:

3	6	+	7	5	=	1	1	1

2 Annie and Ron each think of a number.



The product of their numbers is 762
Work out Ron's number.

This question is just testing whether you know what 'product' means.

The product of Annie's number and Ron's number is 762, so we could write this as

Annie's number x Ron's number = 762

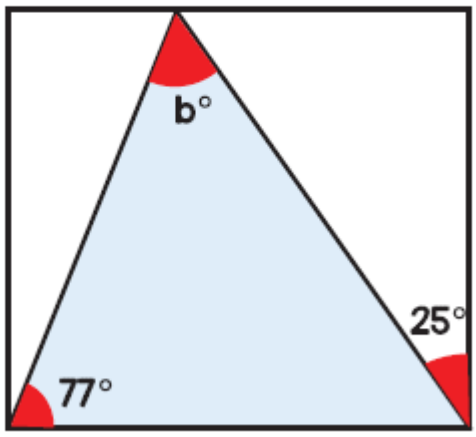
We know Annie's is 6, so

6 x Ron's number = 762

Ron's number = 762 ÷6

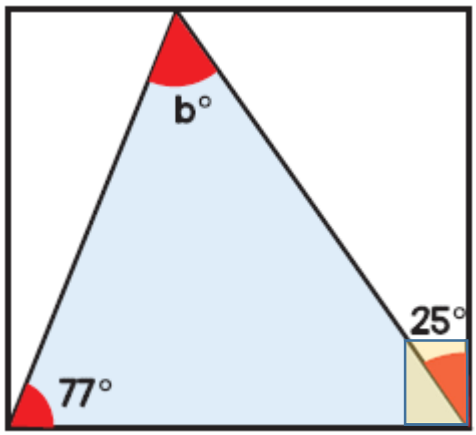
Ron's number = 127

3 Find the size of angle b.



This is a tricky question because we have not looked at angles again this year, but you should know all of the facts that you need.

The question really should tell you that the quadrilateral is a rectangle (or a square). We have to assume it is to solve the question.

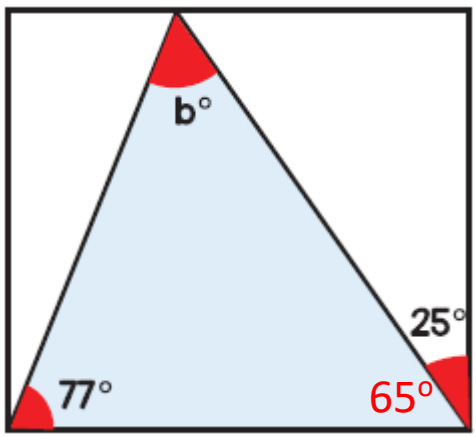


This angle must be a right angle.

A right angle is 90 degrees.

The two angles that add up to make the right angle add up to 90 degrees and one of them is 25 degrees.

The other angle must be 65 degrees.



I've labelled the angle that I've already found.

I know that the angles in a triangle add up to 180 degrees.

If two of the angles are 65° and 77°, then we know that:

65° + 77° + ***b*** = 180°

So angle ***b*** must be **38 degrees**