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Adding the two equations and subtracting the two equations in the original system yields the new system.  $u - uv = (a+b) - uv$ .  $v + uv = (a - b) - uv$ . Multiplying the above two equations yields  $uv(1 - uv) = (a^2 - b^2)(1 - uv)$ , hence  $uv = a^2 - b^2$ . It follows that  $u = \frac{a^2 - b^2}{a + b}$  and  $v = \frac{a^2 - b^2}{a - b}$ .

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a a. Answer is: 12. METHOD 1: List the factor pairs of 72. The factor pairs of 72 are: (1 and 72), (2 and 36), (3 and 24), (4 and 18), (6 and 12), (8 and 9). The quotients (larger/smaller) are 72, 18, 8, 4.5, 2, and 1.125 respectively. The two factors are 6 and 12, so the larger number is 12. METHOD 2: Use algebra.

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