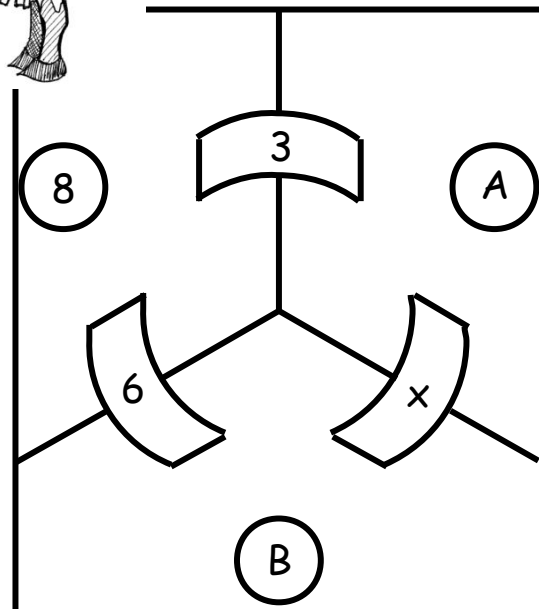
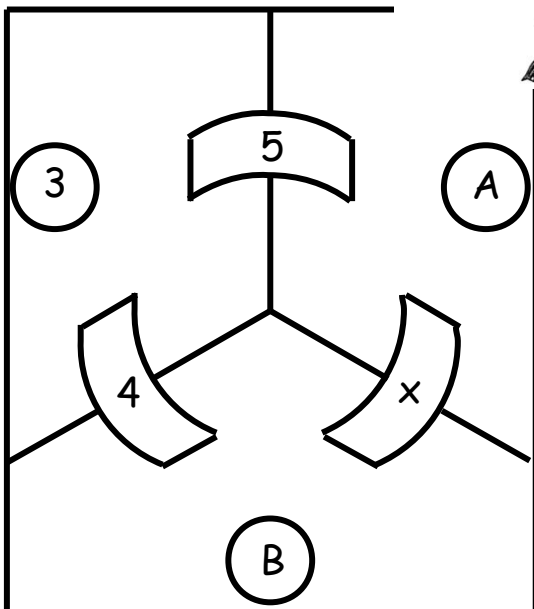
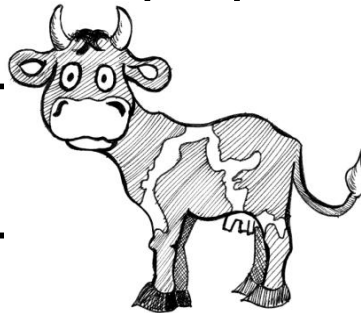
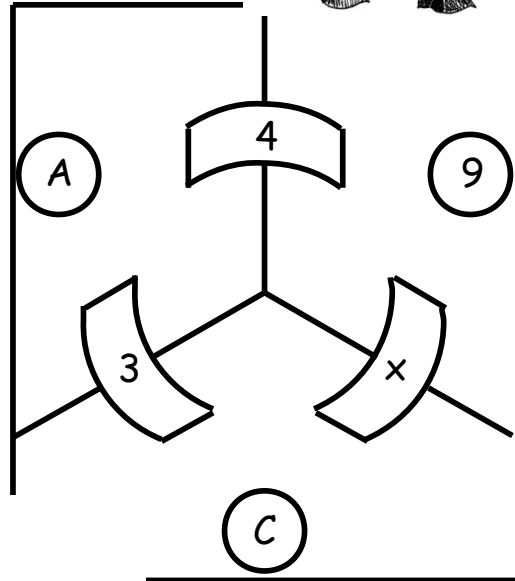
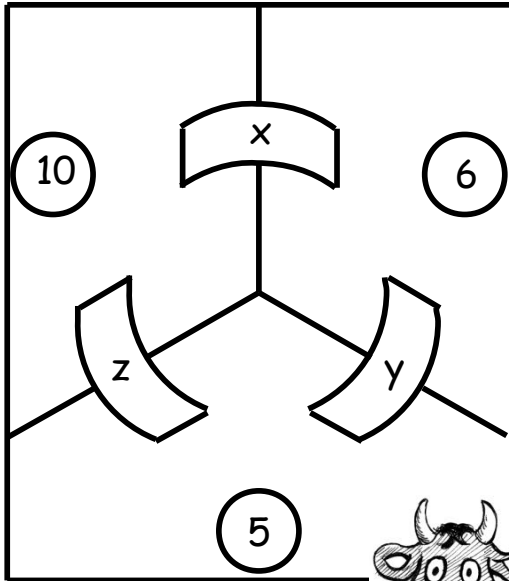
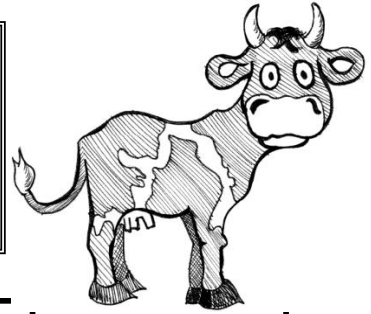
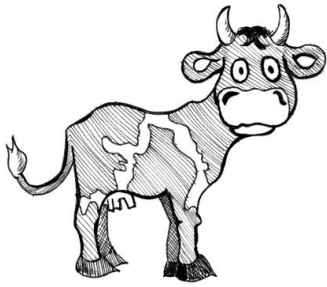


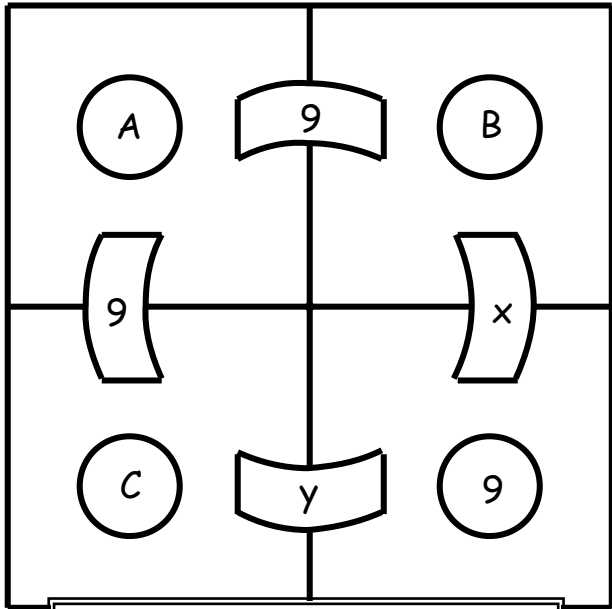
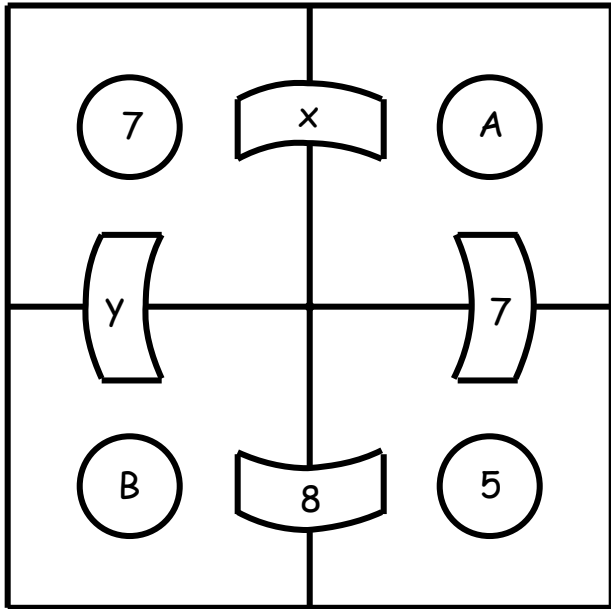
In the following diagrams, the number on each bridge is the *difference* between the positive numbers of cows in each of the adjoining fields. Find all of the unknown values.

I.#12

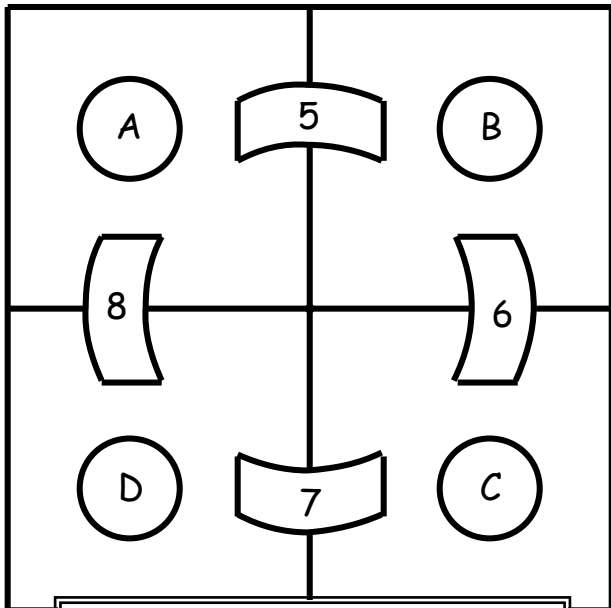




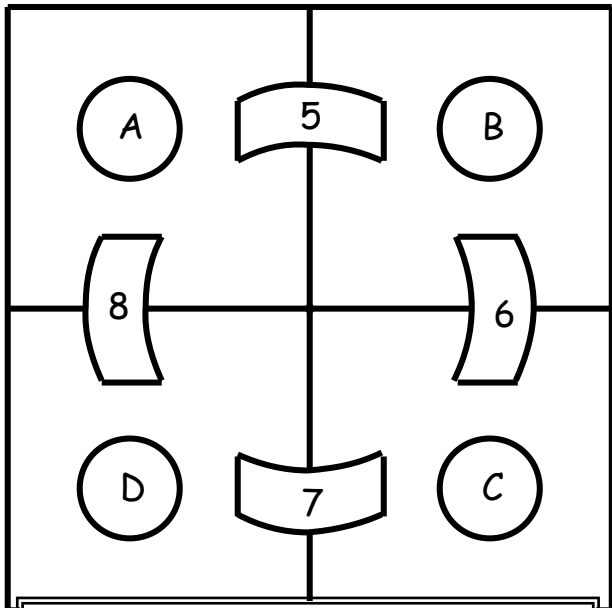
In the following diagrams, the number on each bridge is the *difference* between the numbers of cows in each of the adjoining fields. Find all of the unknown values. I.#13



The total number of cows is 42
- with at least one cow in each field.



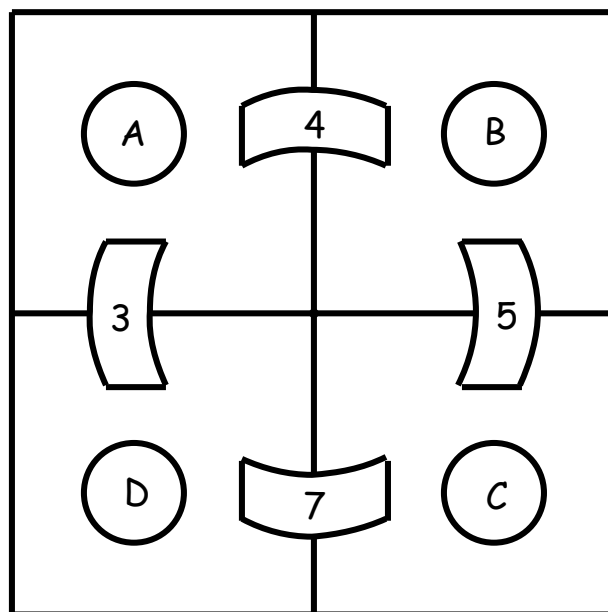
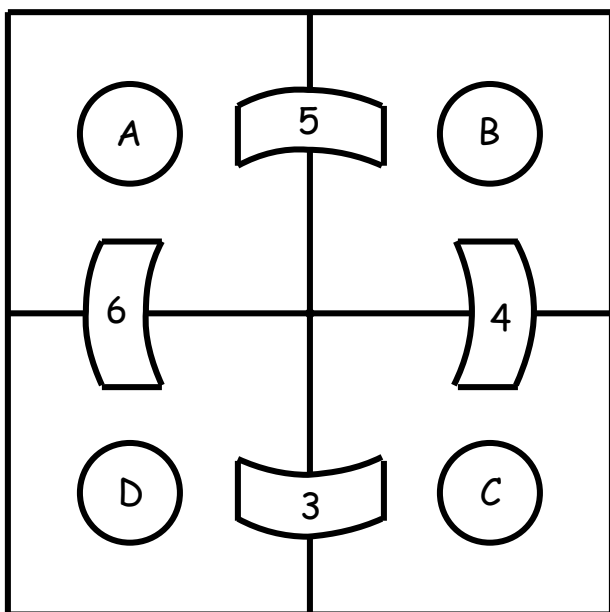
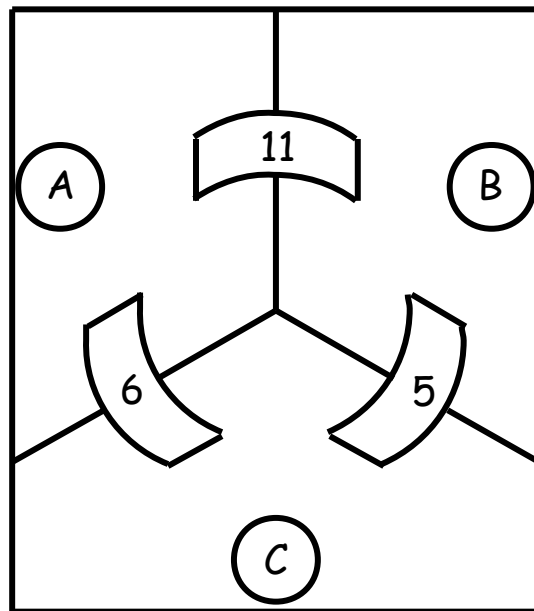
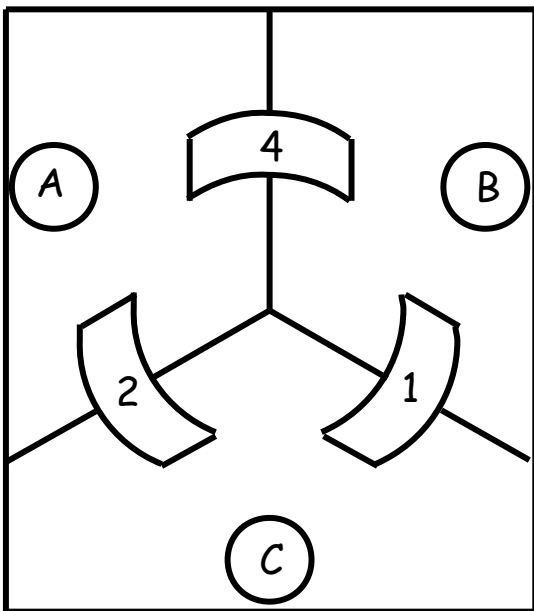
The total number of cows is 44
- with at least one cow in each field.



Find the smallest total number of cows.
- with at least one cow in each field.



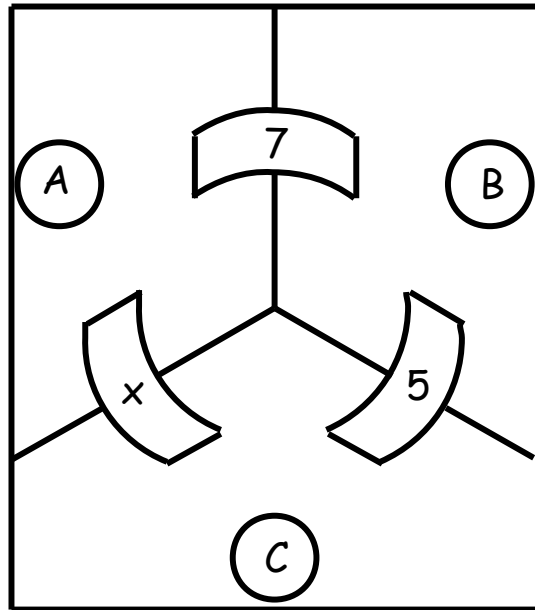
In the following diagrams, the number on each bridge is the **difference** between the numbers of cows in each of the adjoining fields. **Indicate** which of the puzzles are **possible** and which are not. Find the **unknown values** that give the **smallest total number of cows** for the possible cases and explain why the others cannot be solved. None of the fields are empty! I.#14





In the following diagrams, the number on each bridge is the *difference* between the numbers of cows in each of the adjoining fields. I.#15

Find all possible values of x that will make this puzzle *solvable*.



Find the *values of the unknowns* that will give the *smallest total* number of cows. None of the fields are empty.

