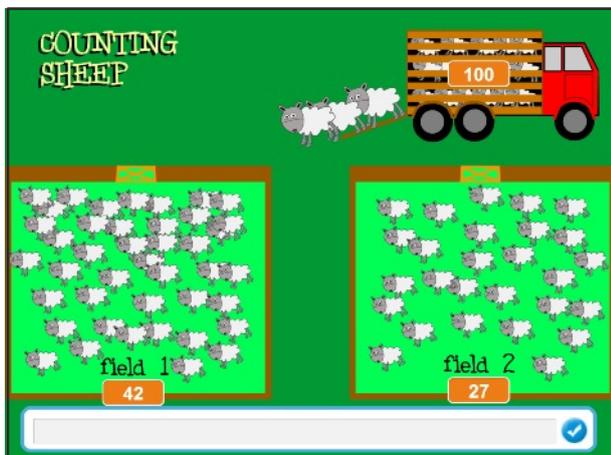


Go online at <https://scratch.mit.edu/projects/29827684/>



The sheepCounting App

This app starts with a truck-load of sheep and two empty fields. Pretend you are the farmer and you want to put a number of sheep in both fields. Just move a sheep with your mouse pointer into *field 1* or *field 2* and the counter will clock-up the number of sheep in the field. The maths fun really starts when you add, subtract or compare the number of sheep in *field 1* and *field 2*.

In the picture there are 42 sheep in *field 1* and 27 in *field 2*. Let's think how you would find answers to some questions about the sheep.

1. How many sheep altogether are in the two fields? *Add 42 and 27.*
2. Which field has the bigger number of sheep. Field 1 or field 2? *Compare.*
3. How many more sheep are in field 1 than in field 2? *Subtract the smaller number from the bigger.*
4. You want to have 60 sheep in field 1. How many more must you put into the field? *You have 42 in the field, you need to add more. Test 1, 2, 3 etc until you find which number brings 42 up to 60!*
5. How many sheep altogether will be in the two fields then? *Add 60 and 27.*
6. How many more sheep will be in field 1 than in field 2 then? *Compare. Then subtract the smaller number from the bigger. Subtract 27 from 60.*

Try the sheepCounting app now.

Try the sheepCounting app again and answer some questions.

1. The farmer wants 32 sheep in one field and 28 in the other field. The bigger number should be in field 2. *Do it now.*
2. How many sheep are in field 1?
3. How many sheep altogether are there in the two fields?
4. How many more sheep are in field 2 than in field 1?
5. The farmer wants to have 44 sheep in field 1. How many more must you put into field 1? *Do it now.*
6. Which field has the bigger number of sheep now?
7. How many sheep altogether are in the two fields now?
8. How many more sheep are in field 1 than in field 2 now?

Ways to think.

1. Is this true or false? Write *true* or *false*

$$32 < 28 \quad \boxed{}$$

2. number in field 1: $\boxed{}$

3. number altogether: $32 + 28 = \boxed{}$

4. compare: $32 - 28 = \boxed{}$

5. which number? $28 + \boxed{?} = 44$

Hint: Make a mini-puzzle eg. $3 + ? = 5$ You know the solution is 2!
How do you get 2 from 3 and 5?

6. Is this true or false? Write *true* or *false*

$$32 < 44 \quad \boxed{}$$

7. number altogether: $32 + 44 = \boxed{}$

8. compare: $44 - 32 = \boxed{}$

Teachers who are interested in learning how to code in Scratch can see inside the **sheepCounting** app at www.scratch.mit.edu/users/scratchfromscratch2 and study the code.