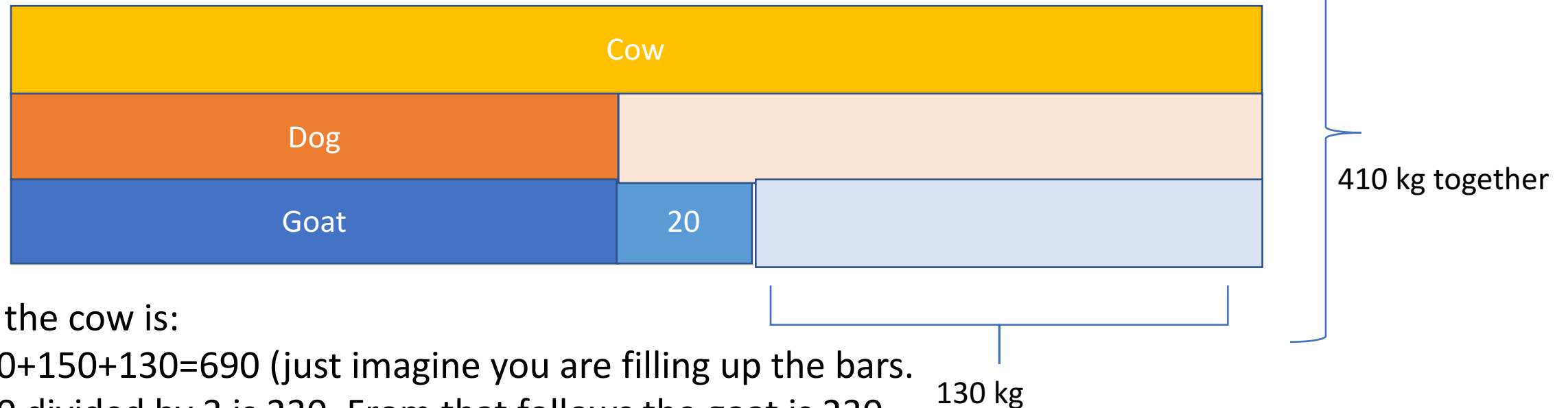Let's take the cow as 'generator' or 'unit'.
It is the longest bar, we know the dog and goat weigh less. But let's assume we make three 'full' bars, just as long as the one for the cow. We then would have the 410 kg PLUS a surplus of 150 and 130.
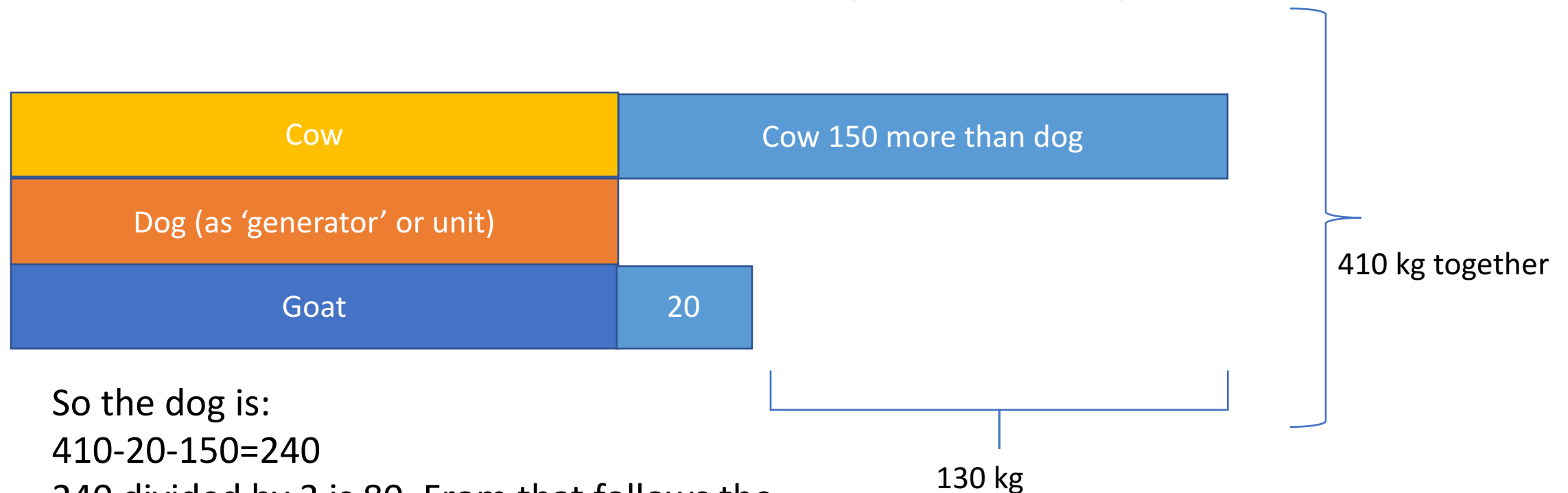
| Cow | |
|---|---|
| Dog | |
| Goat | 20 |

410 kg together

130 kg

So the cow is:
410+150+130=690 (just imagine you are filling up the bars.
690 divided by 3 is 230. From that follows the goat is 230-130=100 kg and the dog 230-150=80 kg.

Let's take the dog as 'generator' or 'unit'.
It is the smallest bar, we know the cow and goat weigh more. The three 'unit' bars on the left plus 150 plus 20 together are 410 kg.

| Cow | Cow 150 more than dog |
|---|---|
| Dog (as 'generator' or unit) | |
| Goat | 20 |

410 kg together

130 kg

So the dog is:
410-20-150=240
240 divided by 3 is 80. From that follows the goat is 100 kg and the cow 230 kg.