Forming and solving equations.

Example

A boy is **2** years older than his sister. Their total age is **20** *years*. How old is the sister ?

Let the sister's age be x

Sister	Boy	Total
X	x + 2	20 yrs

So x + x + 2 = 20 years

Therefore **2x + 2 = 20** years

$$2x + 2 - 2 = 20 - 2$$
$$1\frac{2x}{2} = \frac{18}{2} 1 \quad 9$$
$$x = 9$$

Age of the sister is = **9** yrs

Exercise 14:31 Attempt the following:

1. Okello has **7** more cows than Mugisha. Altogether they have **19** cows How many cows does Mugisha have ?

2. Namuwenge got **6** more books than her brother. Altogether they got **2** books. How many books did the brother get ?

3. Nguga's daughter is **7** years older than the son. Their total age is **27** years. How old is the son?

4. Aisha has **5** more goats than Ruth. Altogether they have **31** goats.
   (a)   How many goats has Ruth ?
   (b)   How many goats has Aisha ?

5. Mutenyo is **8** years younger than his eldest sister. Their total age is **24** years. How old is the eldest sister ?

6. A man earns *sh*. **2,000** less than his wife daily. Their total income is *sh*. **8,000**.
   (a)   How much does the wife earn daily?
   (b)   How much does the man earn daily?

7. Mudde is twice as old as his sister. Their total age is **48**.
   (a)   How old is Mudde?
   (b)   How old is his sister?

8. There are **20** more cows in Okot's farm than in Okello's. If the total number of cows is **60**, how many cows does each of them have?

9. Sarah has **400** more chicken than John. Their total number of chickens is **2,000**. How many chickens does each have ?