

November 12th

One shepherd said to the other. "Give me eight of your sheep and we'll have an equal number."

The other responded "If you give me eight of your sheep I will have twice as many as you."

How many sheep does each shepherd have?



The first statement tells you that the 2nd shepherd has 16 more than the first.

First shepherd : x

Second shepherd: $x + 16$

The second statement tells you that

$$x + 24 = 2(x - 8)$$

Solving gives

$$x = 40$$

So the shepherds have **40 and 56** sheep respectively