Answer on Question # 53318 – Math – Algebra

Pete and Sue have some lemonade. Pete gives 250ml to Sue which leaves her with double what she started.
Sue drinks 1/10 of her lemonade. How much more lemonade would she need now to make a litre?

Solution

Pete gives 250ml to Sue which leaves her with double what she started. It means that Sue had had 250 ml, before Pete gave her 250 ml. After that she had 500 ml.

Sue drinks 1/10 of her lemonade. Now she has

$$500 - 500 * \frac{1}{10} \; ml = \; 450 \; ml$$

To make a litre Sue need

$$1000 - 450 \; ml = \boldsymbol{550 \; ml}$$

Answer: $\boldsymbol{550 \; ml}$