Answer on Question # 41598 – Math - Geometry

A tape of 56 cm is devided into 2 segments whose length are at a rate 3/5, which is the length of the segments?

Solution:

Let k be proportional coefficient, then the length of one segment is 3k and the length of the other one is 5k. As the length of the whole tape is 56 cm, so we obtain

$$3k + 5k = 56$$

$$8k = 56$$

$$k = 7$$

Hence, the length of the shorter segment is 3*7=21 cm, and the length of the longer segment is 5*7=35 cm.

Answer. One segment is 21 cm, and the other one is 35 cm.