Answer on Question #43986, Math, Geometry

How many dusters, each 16 cm square can be cut from material 84 cm long, 36 cm wide? What area remains over?

Solution:

Duster can gain any form. (not only square), so

1) Calculate area of material:

   Area=$84 \cdot 36 = 3024 (cm^2)$

2) Calculate how many dusters we can make

   Dusters = $\frac{3024}{16} = 189$

   Division completed without remainder, therefore no materials left.

Answer: 189 dusters.