

Subject n°23

ARITHMETIC - GEOMETRY

Please do not write on the exam paper, and do not forget to give back the examination paper at the end of the test.

1. Bob has discovered 420 old square tiles in his attic. Their sides are 6 cm long.

He decides to order a rectangular wooden table from a carpenter and to cover it with the tiles.

This table must be at least 60 cm wide and he wants to use all the tiles.

What could the dimensions of the table be?

2. Bob has only one round tablecloth whose radius is 96 cm.

According to the possible dimensions you found in the previous question, which table(s) could he choose if he wants to use his tablecloth?

NB: attic means “grenier”; tablecloth means “nappe”