

Grade 9 Mathematics Worksheet

Problem solving - measurement

Questions:

1. Jabulani wants to tile 24 square metres of floor with imported tiles. The information on the packaging shows that one box covers 3square feet. How many of these boxes must Jabulani buy to make sure he has enough tiles to do the job? (*1 metre = 3,2808399 feet).

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Solution

1. $24m^2 = 24(3,281)^2 sq\ ft$. That means he has to cover 258,36 square feet. Now one box covers 3 square feet, so he will need $\frac{258,36}{3} = 87$ boxes (rounded up to the nearest box).

This question deals with measurement and the area concept as an iterative process of tiling predetermined units. In this case the unit measures 3 square feet.