Wednesday 9th June 2021

Worded problems involving area.

Answer the following questions. Click the box on the right to select your answer.

1. A rectangle wall of length 10 m and width 6 m has to be painted. The cost of painting 1 m^2 of the wall is $8.

   a)   What is the area of the wall?

   b)   What is the cost of painting the wall?

2. Square tiles of side 2 m are used to cover a floor. The area of the floor is 32 m^2 and the cost of one tile is $80.

   a)   What is the area of 1 tile?

   b)   How many tiles are needed to cover the floor?

   c)   What is the total cost of the tiles that are needed to cover the floor?

3. Mr. John bought 6 tiles to cover a floor. Each tile was a square of side 2 m. The floor had a length 8 m and width 4 m.

   a)   What was the area of one tile?

   b)   What was the area of the floor?

c)   What area of the floor did the
     six tiles cover?

d)   How many more tiles did he need
     to cover the entire floor?