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Name: .... Class: ....

Use area and perimeter to determine cost

a. Each side of Mr. Wilson's rectangular office is 9 feet long and 7 feet wide. It will cost $2.00 per square feet to replace the carpet in the office. What would be the total cost to replace the carpet?

b. Peter's bed room is 5 meters wide and 10 meters long. He wants to put blinds on the walls in his room. The cost of a meter of blind material cost $5.00. How will it cost to buy enough blind materials to go round the entire bed room?

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a. Each side of Mr. Wilson's rectangular office is 9 feet long and 7 feet wide. It will cost $2.00 per square feet to replace the carpet in the office. What would be the total cost to replace the carpet?

Let's first of all write down the information given;

Length of the office = 9 feet

Width of the office = 7 feet

Since the cost is given in sqaure feet, it implies that we are going to calculate the area of the office first.

So, Area of the office = length X width

= 9 feet X 7 feet = 63 square feet

Finally, let's find the cost to replace the carpet in the office.

If 1 sqaure feet cost $2.00,

Then, 63 sqaure feet wil cost $\frac{63 \text{ ft}^2 \times \$2.00}{1 \text{ ft}}$ = $126

Therfore, it will cost $126 to replace the carpet in the office

b. Peter's bed room is 5 meters wide and 10 meters long. He wants to put blinds on the walls in his room. The cost of a meter of blind material cost $5.00. How will it cost to buy enough blind materials to go round the entire bed room?

Let's first of all write down the information given;

Length of the bedroom = 10 meters

Width of the bedroom = 5 meters

Since the cost is given per meter, it implies that, we are going to calculate the perimeter of the bed room first

So, perimeter of the bed room = sum of all sides

= 10m + 5m + 10m + 5m = 20 meters

Finally, let's find the cost of blind material which will cover the entire bedroom.

If 1 meter cost $5.00

Then, 20 meters wil cost $\frac{20m \times \$5.00}{1m}$ = $100

Therfore, the cost of blind materials that will cost the entire bedroom = $100