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

Area and perimeter: word problems

a. The perimeter an A4 sheet is 36 inches. If it is 10 inches long, how wide is it?

b. Richard was given a contract to create a children's playground. He created a playground that is 60 meters wide and 90 meters long.
i) What is the perimeter of the playground?
ii) What is the area of the playground?

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Area and perimeter: word problems

a. The perimeter an A4 sheet is 36 inches. If it is 10 inches long, how wide is it?

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

Perimeter of the A4 sheet = 36inches

Length of the A4 sheet = 10inches

width of the A4 sheet = ?

But perimeter = sum of all side lengths

$36 \text{ in} = 10 \text{ in} + ? + 10 \text{ in} + ?$

$36 \text{ in} = 20 \text{ in} + 2?$

$36 \text{in} - 20 \text{in} = 2?$

$16 \text{ in} = 2?$

$8 \text{ in} = ?$

So, A4 sheet is 8 inches wide.

b. Richard was given a contract to create a children's playground. He created a playground that is 60 meters wide and 90 meters long.
i) What is the perimeter of the playground?
ii) What is the area of the playground?

Let's first of all write down the given information

Length of playground = 90 meters

Width of playground = 60 meters

i) So, perimeter of the playground = total length of all the sides

$= (90 + 60 + 90 + 60) \text{ m}$

$= 300 \text{ meters}.$

Therefore, the perimeter of the playground = 30 meters.

ii) Area of the playground = length X width

$= 90 \text{ m} \times 60 \text{ m}$

$= 5,400 \text{ m}^2$

So, the area of the playground = 5,400 sqaure meters.