Air Pressure on Rectangles

In Spanish Lake, MO, the Earth’s atmosphere has a force of about 14 pounds per square inch (psi). This is due to air pressure. Find the area of the following rectangles to determine how many pounds of force are pushing on it.

Remember: Air presses down with 14 pounds of force on every square inch.

Area = length x width

Example:

2

Area (A) = Length x width

 4 in x 3 in = 12 in

Force = Area x 14 psi

 12 in x 14 psi = 168 psi

Width =

3 in.

A = 12 in

Force = 168 psi

2

2

 Length = 4 in. 

4 in.

5 in.

4 in.

2 in.

3 in.

3 in.

11 in.

7 in.

2 in.

10 in.

2 in.

8 in.

A =

Force =

A =

Force =

A =

Force =

A =

Force =

A =

Force =

A =

Force =

1. 2. 3.

4. 5.

6.