



#1

Natalie is an engineer and has to design the solar sail for the propulsion system of a new spacecraft. The larger the area of the sail, the greater thrust it will gain from the solar radiation. If the rectangular sail has sides of 2 feet and 4 feet, then what is its area?

square feet

Show your work

#2

The surface of a piece of cardboard is 3 feet long and 2 feet wide. What is the piece of cardboard's area?

square feet

Show your work

#3

In order to find the amount of flooring Grace needs to buy, find the the area of a rectangular room that has a width of 4 meters and a height of 4 meters.

square meters

Show your work



#4

A square area rug has side lengths of 2 feet. What is the rug's area?

square feet

Show your work

#5

Each side of a square piece of cardboard is 5 feet long. What is the piece of cardboard's area?

square feet

Show your work

#6

Anthony lives on the International Space Station. In order to calculate the power gained by the solar panels, Anthony needs to find their area. If a square panel is 5 feet long then what is the area?

square feet

Show your work



#7

Grace is an engineer and has to design the solar sail for the propulsion system of a new spacecraft. The larger the area of the sail, the greater thrust it will gain from the solar radiation. If the square sail has sides of 4 feet then what is its area?

square feet

Show your work

#8

The surface of a piece of cardboard is 3 feet long and 4 feet wide. What is the piece of cardboard's area?

square feet

Show your work

#9

In order to find the amount of flooring Daniel needs to buy, find the the area of a rectangular room that has a width of 2 meters and a height of 4 meters.

square meters

Show your work



#10

The surface of a piece of cardboard is 1 foot long and 4 feet wide. What is the piece of cardboard's area?

square feet

Show your work

#11

Owen is an engineer and has to design the solar sail for the propulsion system of a new spacecraft. The larger the area of the sail, the greater thrust it will gain from the solar radiation. If the square sail has sides of 3 feet then what is its area?

square feet

Show your work

#12

The top of a square coffee table has a height and width of 2 feet. What is the area?

square feet

Show your work

Question	Answer
#1	8
#2	6
#3	16
#4	4
#5	25
#6	25
#7	16
#8	12
#9	8
#10	4
#11	9
#12	4