



#1

Anthony 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

#2

What is the area of this figure?



$8 \text{ m}^2$

$10 \text{ m}^2$

$13 \text{ m}^2$

$12 \text{ m}^2$

Show your work

#3

Landon 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 4 feet and 3 feet, then what is its area?



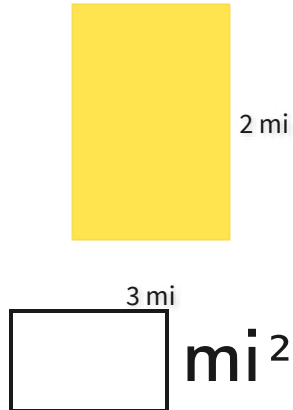
square feet

Show your work



#4

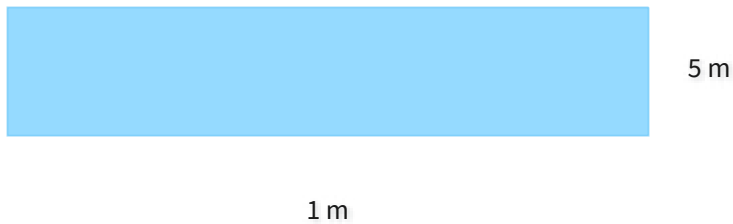
What is the area of this figure?



Show your work

#5

What is the area of this figure?



6 m<sup>2</sup>

5 m<sup>2</sup>

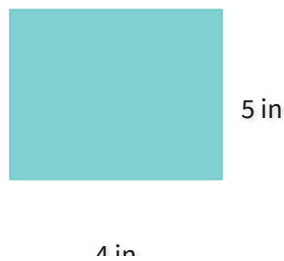
8 m<sup>2</sup>

7 m<sup>2</sup>

Show your work

#6

What is the area of this figure?



14 in<sup>2</sup>

16 in<sup>2</sup>

23 in<sup>2</sup>

20 in<sup>2</sup>

Show your work



#7

A square table has sides of 5 feet. What is the area?

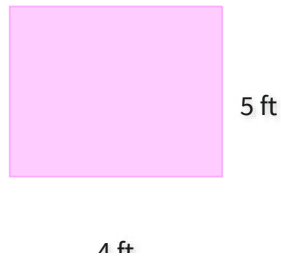


\_\_\_\_\_ square feet

Show your work

#8

What is the area of this figure?



26 ft<sup>2</sup>

21 ft<sup>2</sup>

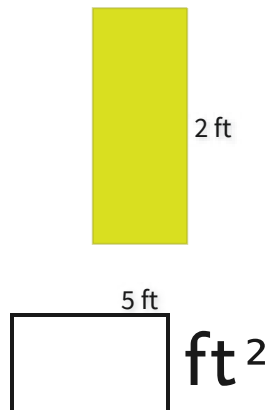
17 ft<sup>2</sup>

20 ft<sup>2</sup>

Show your work

#9

What is the area of this figure?



Show your work



#10

In order to find the amount of flooring Joseph needs to buy, find the area of a rectangular room that has a width of 2 meters and a height of 3 meters.



square meters

Show your work

#11

What is the area of this figure?

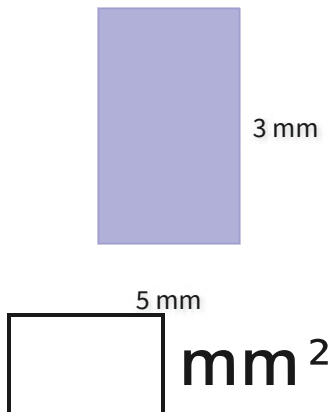


- 2 km<sup>2</sup>
- 1 km<sup>2</sup>
- 7 km<sup>2</sup>
- 4 km<sup>2</sup>

Show your work

#12

What is the area of this figure?



Show your work

Question	Answer
#1	16
#2	choice 2
#3	12
#4	6
#5	choice 2
#6	choice 4
#7	25
#8	choice 4
#9	10
#10	6
#11	choice 4
#12	15