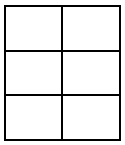
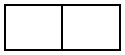
Module 4 End-of-Module Review Name _____

1. Fran says the rectangle on the top has the same area as the sum of the two rectangles on the bottom. Peggy says they do not have the same areas. Who is correct? Explain.

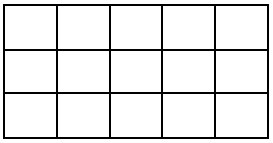
Area = _____



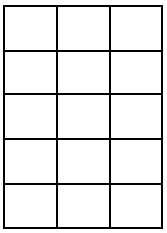
Area = _____



1. Junniper says the rectangle on the top has the same area as the sum of the two rectangles on the bottom. Feruke says they do not have the same areas. Who is correct? Explain.



Area = _____



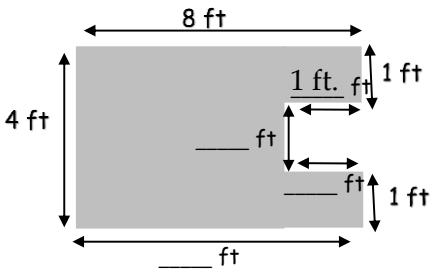
Area = _____

2. Draw two different arrays that you could make with an area of 16 square inch tiles.
- Label the side lengths on each of your arrays.
- Write multiplication sentences for each array to prove that the area of each are 16 square inches.

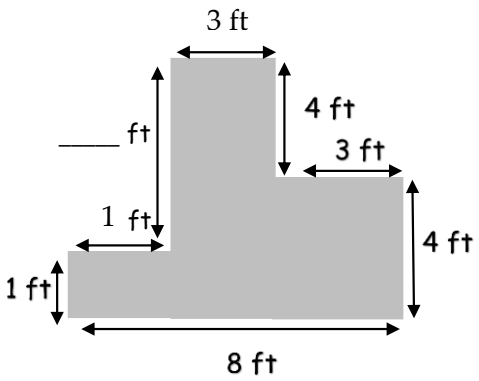
2. Draw two different arrays that you could make with an area of 18 square inch tiles.
- Label the side lengths on each of your arrays.
- Write multiplication sentences for each array to prove that the area of each are 18 square inches.

3. Mr. and Mrs. Crawford are building a deck on their house. They are deciding between the two plans below.

Deck A



Deck B



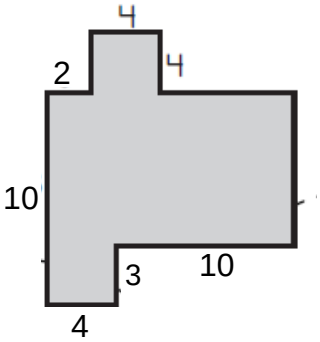
a. Area of Plan A = _____

Area of Plan B = _____

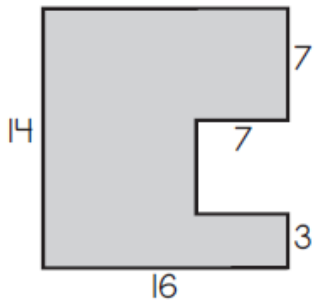
b. Which plan has the greater area? Fill in the missing side lengths on the plans. Show your calculations for area below.

3. The Johnsons are building a treehouse. They are deciding between the two plans below.

Treehouse A



Treehouse B

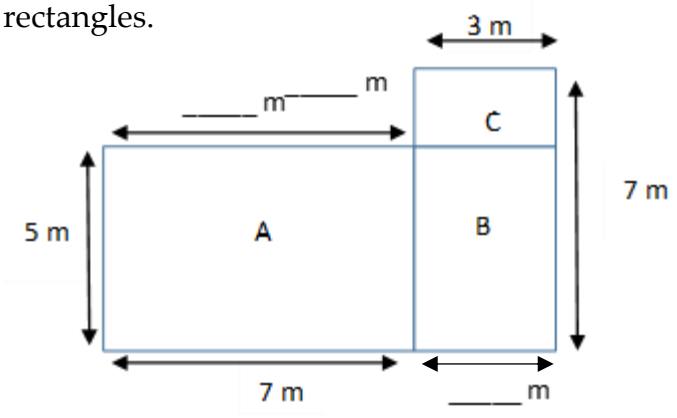


a. Area of Plan A = _____

Area of Plan B = _____

b. Which plan has the greater area? Fill in the missing side lengths on the plans. Show your calculations for area below.

4. West Elementary School uses the design below for their gym. Shapes A, B, and C are rectangles.



a. Label the side lengths of Rectangles A and B on the drawing.

b. Find the area of each rectangle.

Area of A =

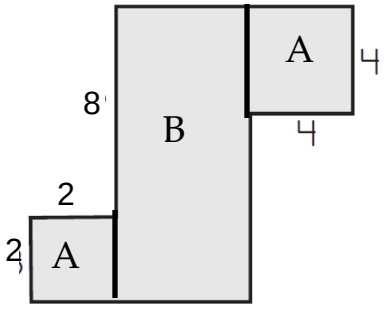
Area of B =

Area of C =

c. Find the area of the entire gym.

d. Explain how you found the area of the gym.

4. North Elementary School uses the design below for their play structure. Shapes A, B, and C are rectangles.



a. Label any missing side lengths of each rectangle on the drawing.

b. Find the area of each rectangle.

Area of A =

Area of B =

Area of C =

c. Find the area of the entire play structure.

d. Explain how you found the area of the play structure.