

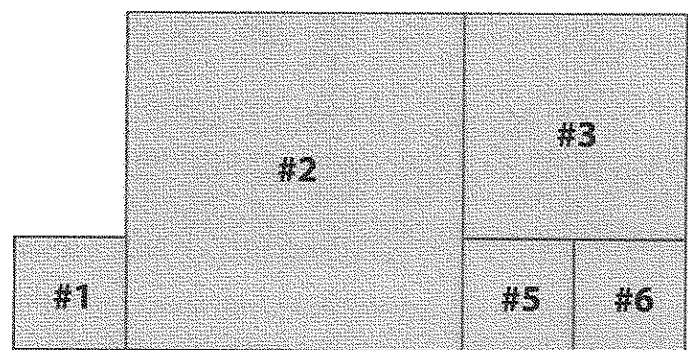
G5-M6-Lesson 22

Solve using any method. Show all your thinking.

I know that squares have all 4 sides of equal length.

Study this diagram showing all the squares. Fill in the table.

Figure	Area in Square Centimeters
1	9 cm^2
2	81 cm^2
3	36 cm^2
5	9 cm^2
6	9 cm^2



The table says the area of Figure 1 is 9 cm^2 .
 $3 \text{ cm} \times 3 \text{ cm} = 9 \text{ cm}^2$
 I know that each side of Figure 1 is 3 cm long.

Figures 5 and 6 are the same size as Figure 1. They also have an area of 9 cm^2 .

Figure 3:

$$3 \text{ cm} + 3 \text{ cm} = 6 \text{ cm}$$

$$6 \text{ cm} \times 6 \text{ cm} = 36 \text{ cm}^2$$

Figure 3 shares a side with Figures 5 and 6. Since the side lengths of Figures 5 and 6 are 3 cm each, the side length of Figure 3 must be 6 cm.

Figure 2:

$$6 \text{ cm} + 3 \text{ cm} = 9 \text{ cm}$$

$$9 \text{ cm} \times 9 \text{ cm} = 81 \text{ cm}^2$$

Figure 2 shares a side with Figures 3 and 5. Since the side lengths of Figures 3 and 5 are 6 cm and 3 cm, respectively, the side length of Figure 2 must be 9 cm.