



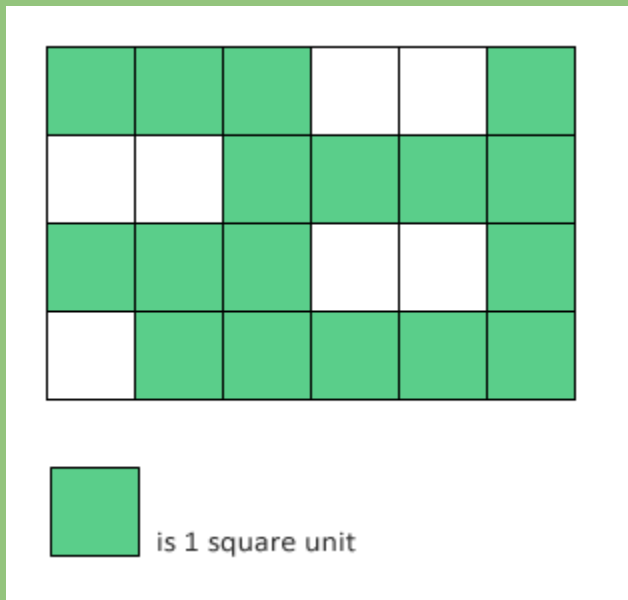
Area in Square Units

FREE Worksheet - 3

Time: 20 minutes

(Detailed solutions at the end)

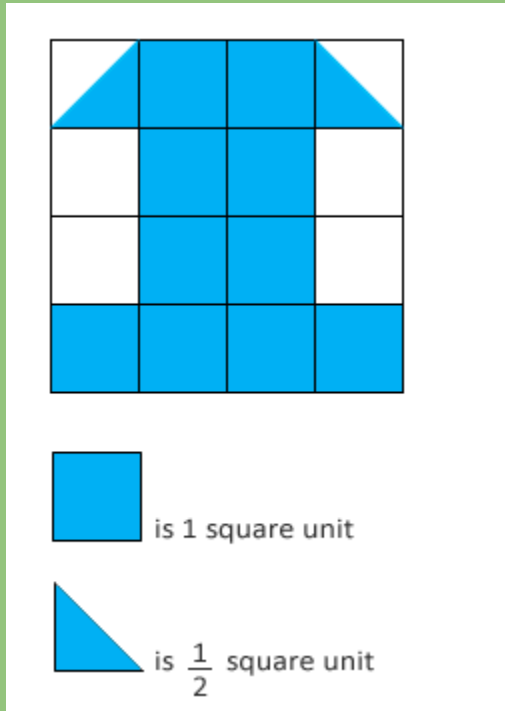
1. How many square units should be added to the shaded figure below to change its area to 21 square units?



Answer: _____ square units



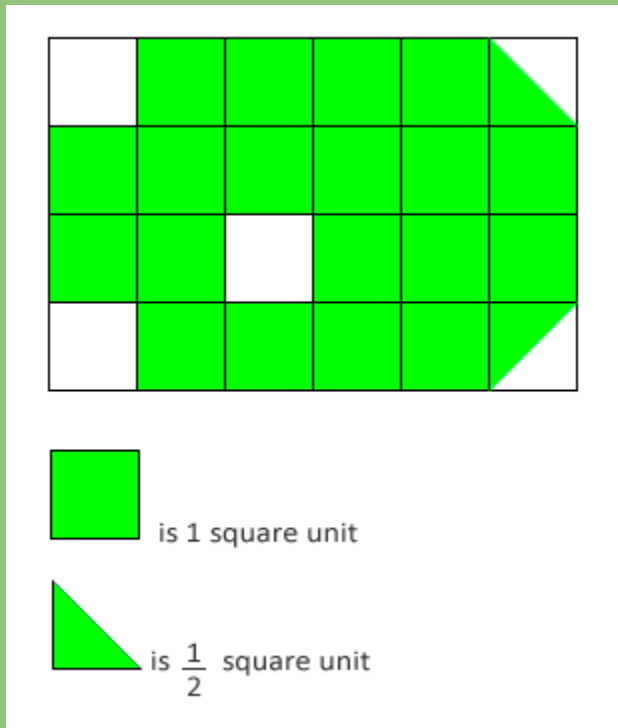
2. What is the area of the shaded figure below?



Answer: _____ square units



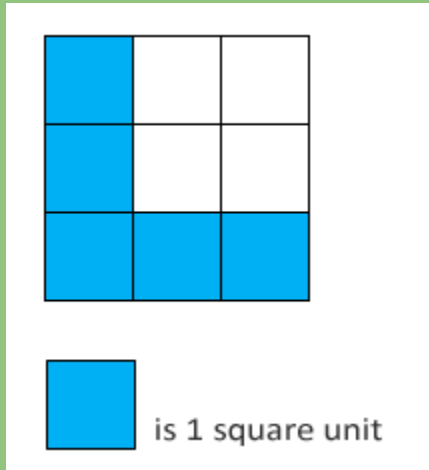
3. How many half-square units should be added to the figure below to change its area to 24 square units?



Answer: _____ square units



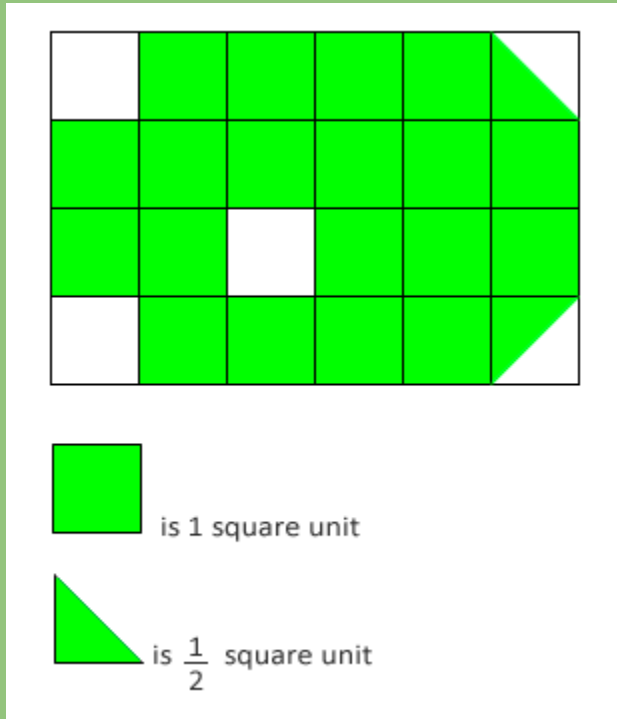
4. What is the area of the shaded figure given below?



Answer: _____ square units



5. What is the area of the shaded figure below?



Answer: _____ square units



SOLUTIONS

Problem 1

Area of the shaded figure = 17 square units

$$21 - 17 = 4$$

4 square units should be added to the shaded figure to change its area to 21 square units.

Problem 2

Number of full shaded squares in the figure = 10

Number of half shaded squares in the figure = 2 = 1 full square

Total number of shaded squares in the figure = 11

Area of the shaded figure = 11 square units



Problem 3

Area of the shaded figure = 20 square units

$$24 - 20 = 4 \text{ square units}$$

$$4 \text{ square units} \times 2 = 8 \text{ half-square units}$$

8 half-square units should be added to the shaded figure to change its area to 24 square units.

Problem 4

Number of shaded squares in the figure = 5

Area of the shaded figure = 5 square units



Problem 5

Number of full shaded squares in the figure = 19

Number of half shaded squares in the figure = 2 = 1 full square

Total number of shaded squares in the figure = 20

Area of the shaded figure = 20 square units