



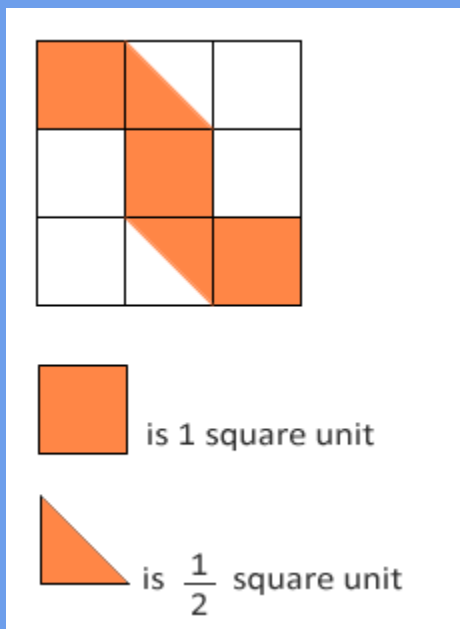
Area in Square Units

FREE Worksheet - 4

Time: 20 minutes

(Detailed solutions at the end)

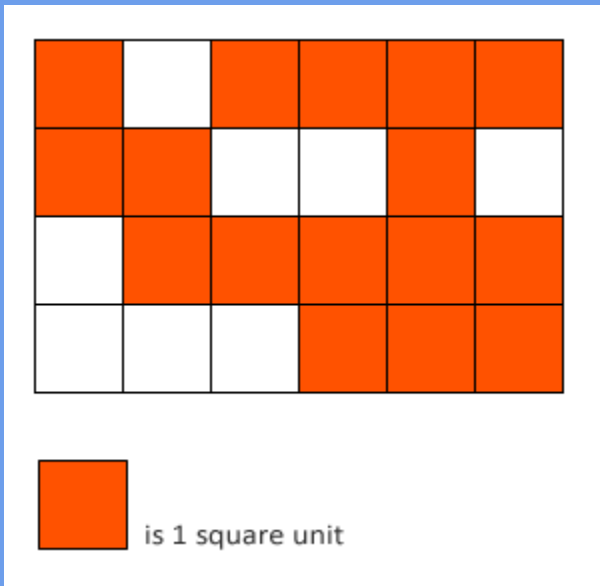
1. What is the area of the shaded figure below?



Answer: _____ square units



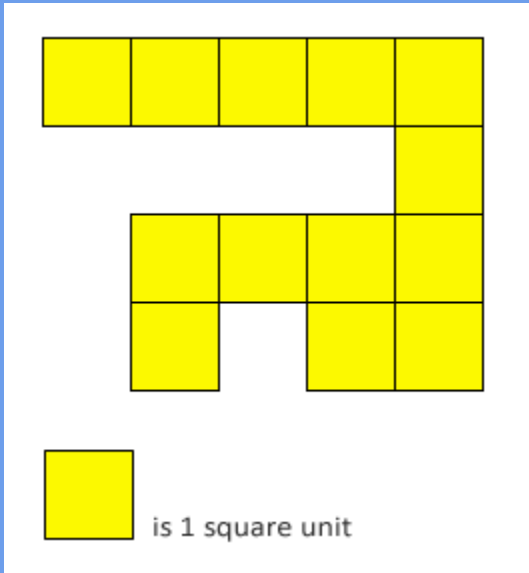
2. How many square units should be added to the shaded figure below to change its area to 18 square units?



Answer: _____ square units



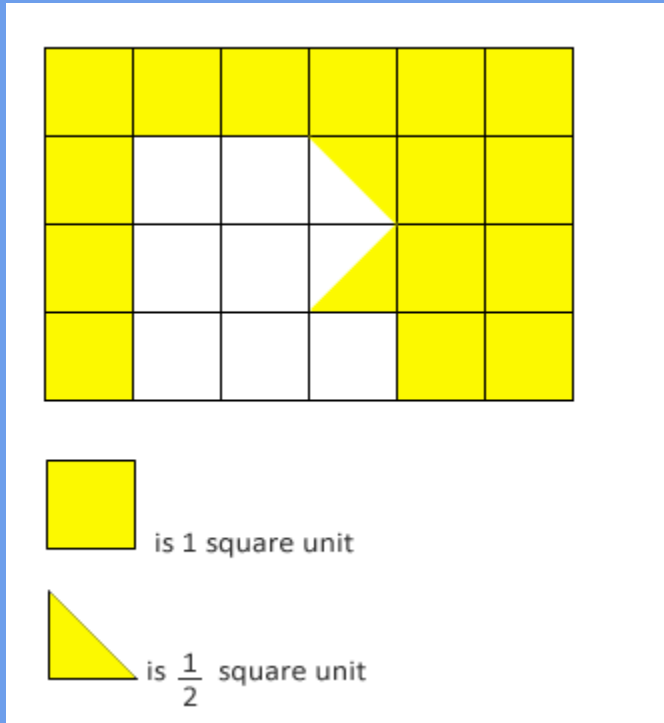
3. What is the area of the shaded figure below?



Answer: _____ square units



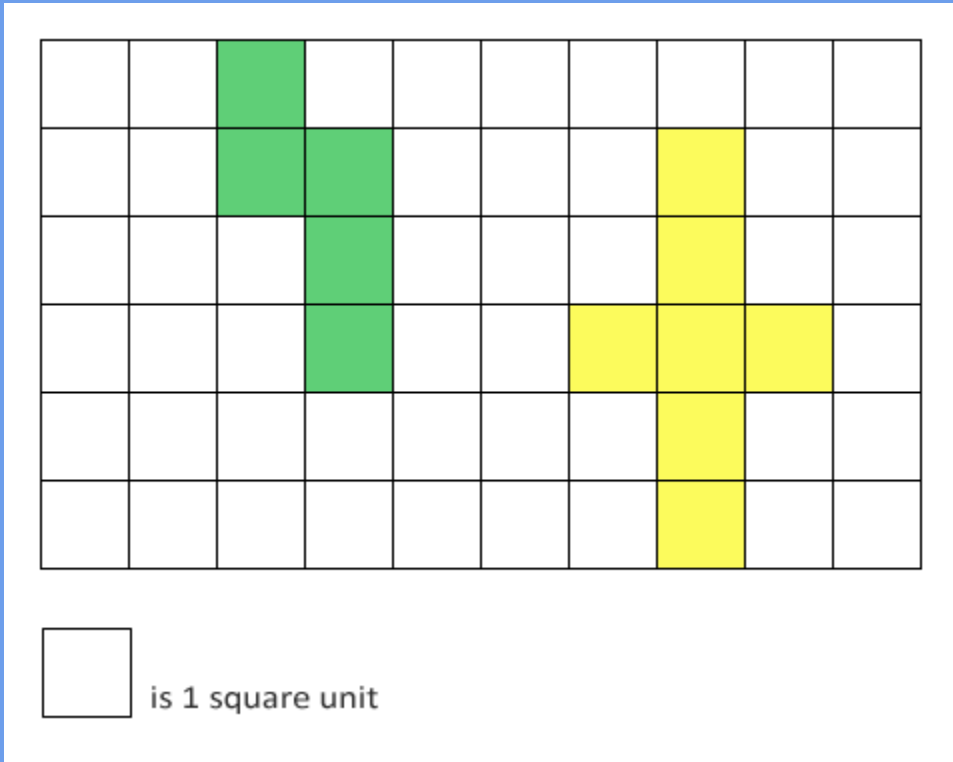
4. How many half-square units should be added to the figure below to change its area to 20 square units?



Answer: _____ square units



5. What is the total area of the two shaded figures given below?



Answer: _____ square units



SOLUTIONS

Problem 1

Number of full shaded squares in the figure = 3

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

Total number of shaded squares in the figure = 4

Area of the shaded figure = 4 square units

Problem 2

Area of the shaded figure = 16 square units

$$18 - 16 = 2$$

2 square units should be added to the shaded figure to change its area to 18 square units.

Problem 3

Number of shaded squares in the figure = 13

Area of the shaded figure = 13 square units



Problem 4

Area of the shaded figure = 16 square units

$$20 - 16 = 4 \text{ square units}$$

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

8 half-square units should be added to the shaded figure to change its area to 20 square units.

Problem 5

Area of the green figure = 5

Area of the yellow figure = 7

Total area of the 2 shaded figures = $5 + 7 = 12$ square units