



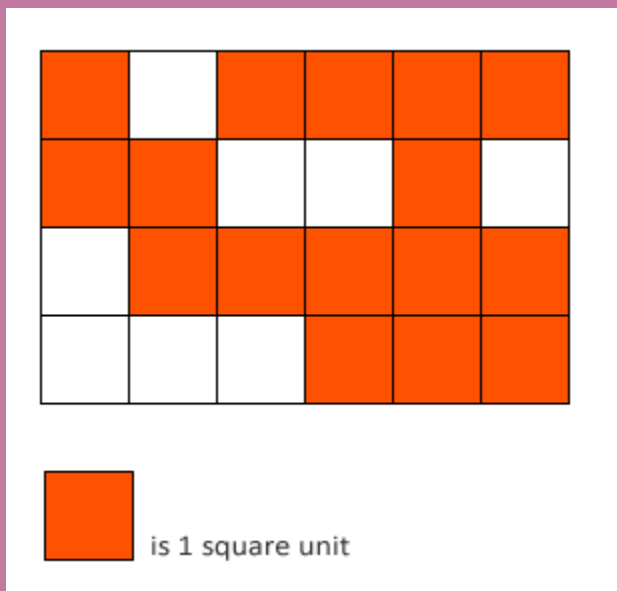
Area in Square Units

FREE Worksheet - 5

Time: 20 minutes

(Detailed solutions at the end)

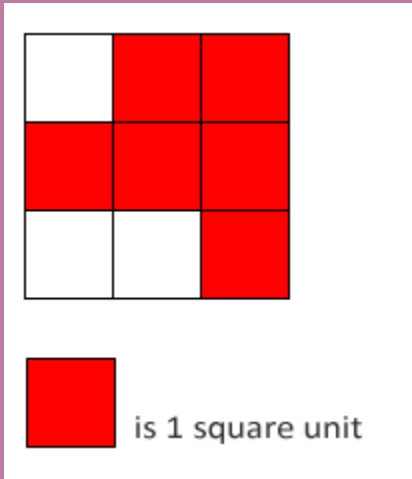
1. What is the area of the shaded figure below?



Answer: _____ square units



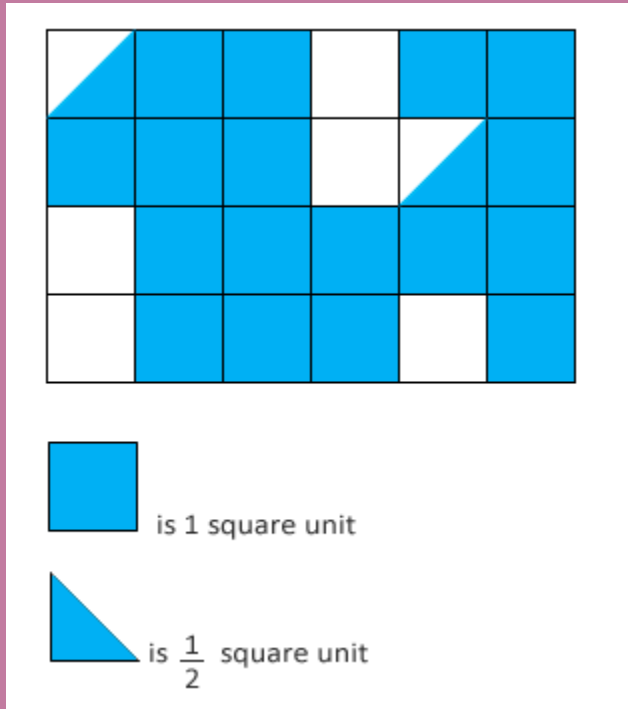
2. What is the area of the shaded figure below?



Answer: _____ square units



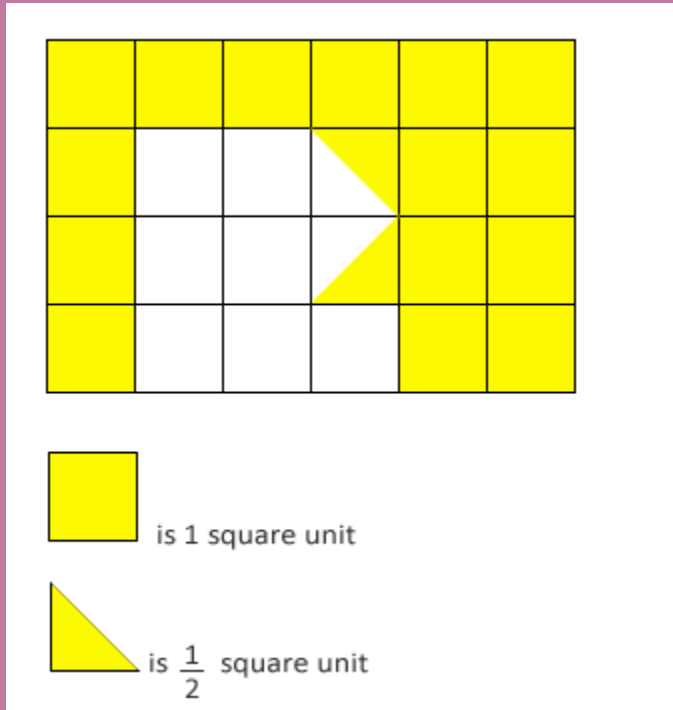
3. What is the area of the shaded figure below?



Answer: _____ square units



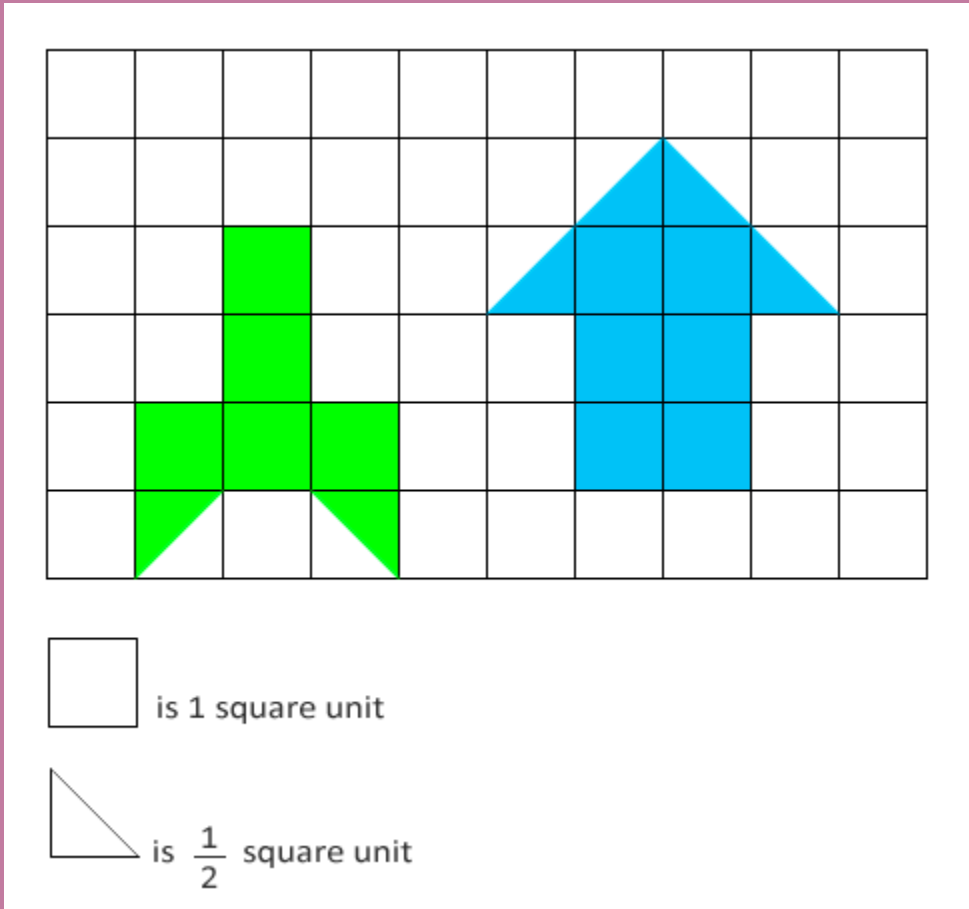
4. How many half-square units should be added to the figure below to change its area to 20 square units?



Answer: _____ half square units



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



Answer: _____ square units



SOLUTIONS

Problem 1

Number of shaded squares in the figure = 16

Area of the shaded figure = 16 square units

Problem 2

Number of shaded squares in the figure = 6

Area of the shaded figure = 6 square units

Problem 3

Number of full shaded squares in the figure = 17

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

Total number of shaded squares in the figure = 18

Area of the shaded figure = 18 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 = 6

Area of the blue figure = 8

Total area of the 2 shaded figures = $6 + 8 = 14$ square units