

Area of Composite Shapes Worksheets (Rectangles)

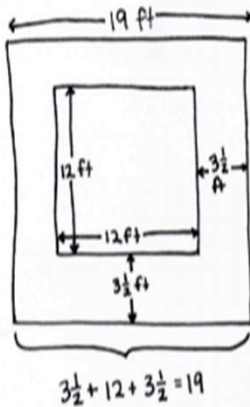
Peterkin Park has a square fountain with a walkway around it. The fountain measures 12 feet on each side. The walkway is $3\frac{1}{2}$ feet wide. Find the area of the walkway.

If 1 bag of gravel covers 9 square feet, how many bags of gravel will be needed to cover the entire walkway around the fountain in Peterkin Park?

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Solution A



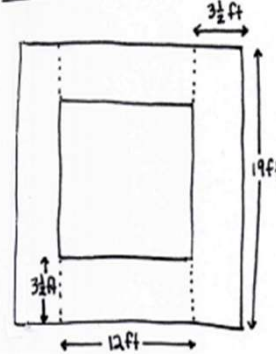
$$A = (19 \times 19) - (12 \times 12)$$

$$= 361 - 144$$

$$= 217$$

The area of the walkway is 217 square feet.

Solution B



$$A = 2 \times (3\frac{1}{2} \times 12) + 2 \times (3\frac{1}{2} \times 19)$$

$$= 2 \times (36 + \frac{12}{2}) + 2 \times (57 + \frac{19}{2})$$

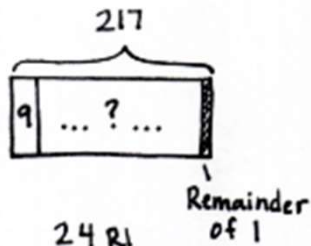
$$= (2 \times 42) + (2 \times 66\frac{1}{2})$$

$$= 84 + 133$$

$$= 217$$

The area of the walkway is 217 square feet.

If 1 bag of gravel covers 9 square feet, how many bags of gravel will be needed to cover the entire walkway around the fountain in Peterkin Park?



$$\begin{array}{r} 24 \text{ R}1 \\ 9 \overline{) 217} \\ \underline{-18} \\ 37 \\ \underline{-36} \\ 1 \end{array}$$

25 bags will be needed, as 24 bags will only cover 216 square feet.