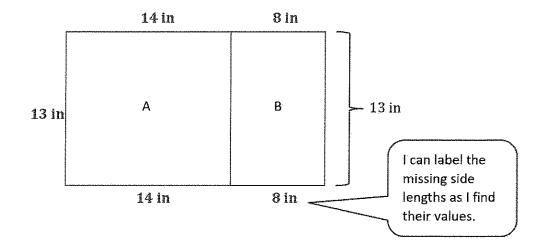
G5-1/16-Lesson 23

In the diagram, the length of Figure B is $\frac{4}{7}$ the length of Figure A. Figure A has an area of 182 in^2 . Find the perimeter of the entire figure.



I can find the length of Figure A by dividing the area by the width. Now that I know the length of Figure A, I can use it to find the length of Figure B.

I can find the perimeter of the entire figure by adding up all of the sides.

Figure A:

Area = length
$$\times$$
 width
 $182 = \underline{\hspace{1cm}} \times 13$
 $182 \div 13 = 14$

The length of Figure A is 14 inches.

$$\frac{4}{7}$$
 of 14 inches

$$\frac{4}{7} \times 14$$

$$= \frac{4 \times 14}{7}$$

The length of Figure B is 8 inches.

<u>Entire Figure:</u>

$$14 + 8 + 13 + 8 + 14 + 13 = 70$$

The perimeter of the entire figure is 70 inches.