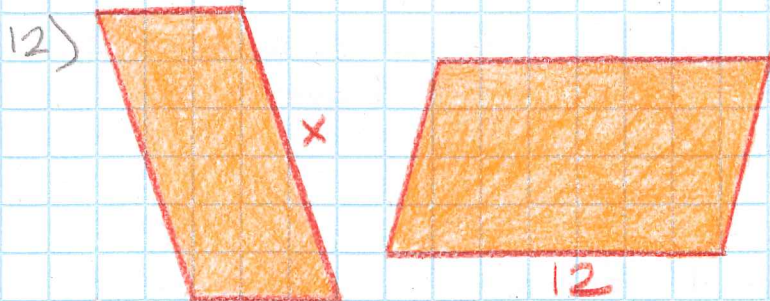


SECTION 2.7
#12, 14, 15, 16, 20

BEN WILSON
10/29/19
PER 1



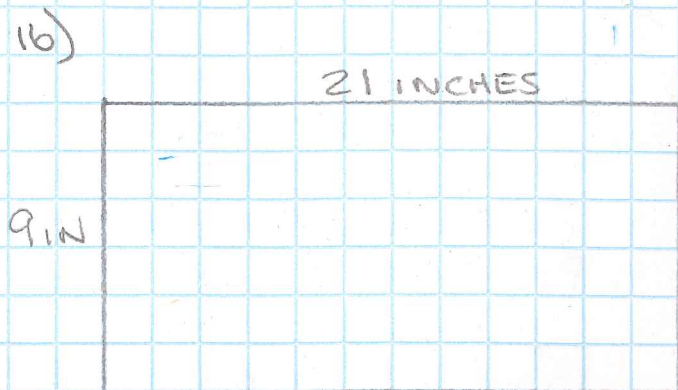
THE RATIO OF THE PERIMETERS IS 7 TO 10.

$$\frac{\text{SMALL}}{\text{LARGE}} \quad (12) \frac{7}{10} = \frac{x}{12} (12)$$

$$\frac{84}{10} = x$$

$$x = 8.4 \text{ UNITS}$$

14) IF THE RATIO OF THE CORRESPONDING SIDE LENGTHS IS 10:7, THE RATIO OF THE AREAS IS $\frac{10^2}{7^2}$ OR $\frac{100}{49}$



THIS COSTS \$1.31

$$\begin{array}{r} 21 \\ \times 9 \\ \hline 189 \text{ IN}^2 \end{array} \quad \begin{array}{r} 3 \\ 18 \\ \times 42 \\ \hline 36 \\ 72 \\ \hline 756 \text{ IN}^2 \end{array}$$

$$\frac{\text{SMALL}}{\text{LARGE}} \quad \frac{189}{756} = \frac{1.31}{x}$$

$$\frac{189x}{189} = \frac{990.36}{189}$$

$$x = 5.24$$

15) SQUARE A : SQUARE B
4 : 9
12 yds : ?

$$\frac{\text{A SIDE LENGTH}}{\text{PERIMETER}} = \frac{\text{B SIDE LENGTH}}{\text{PERIMETER}}$$

$$\frac{4}{48} = \frac{9}{x}$$

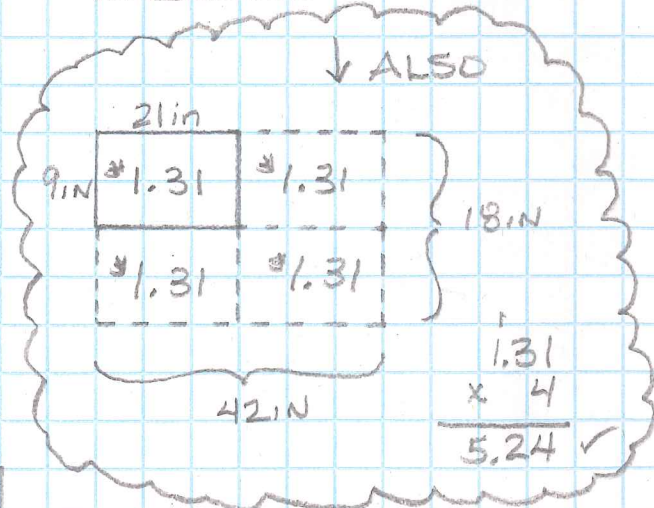
$$48(9) = x(4)$$

$$\frac{432}{4} = \frac{4x}{4}$$

$$108 = x$$

$$x = 108 \text{ yd}$$

I WOULD EXPECT TO PAY \$5.24.



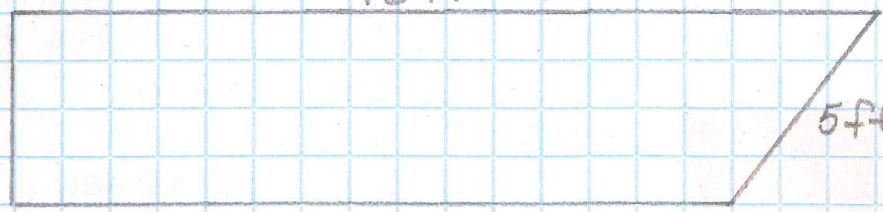
THE PERIMETER OF SQUARE B IS 108 yd.

#20

20)

4ft

18ft



5ft

= 2 BOTTLES OF FERTILIZER!

$$P = 4ft + 18ft + 5ft + 15ft$$
$$P = 42ft$$

BOTTLES
PERIMETER

$$\frac{2}{42} \times \frac{x}{105}$$

YOU WOULD NEED 5 BOTTLES OF FERTILIZER TO TREAT A GARDEN WITH A PERIMETER OF 105 FT.

$$42(x) = 105(2)$$
$$\frac{42x}{42} = \frac{210}{42}$$
$$x = 5$$