

79. Mr. Nowlin has a rectangular garden with an area of 47.25 square feet and a length of 10.5 feet.

a) What is the width of the garden?
 Work Backwards!
 $47.25 \div 10.5 = 4.5 \text{ ft}$

$$\begin{array}{r} +1 \quad 4.5 \\ 10.5 \overline{) 47.25} \\ \underline{-420} \\ 525 \\ \underline{-525} \\ 0 \end{array}$$

b) What is the garden's perimeter?
 $4.5 + 10.5 + 4.5 + 10.5 = 30 \text{ ft}$

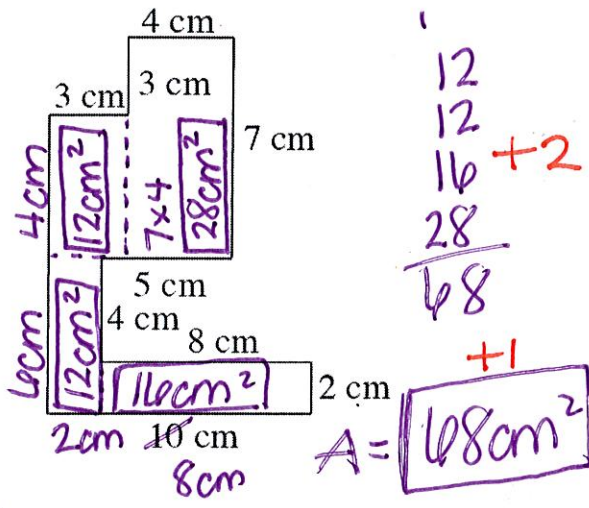
78. Solve and graph (on a number line) the following inequalities:

1) $x + 3 < 7$
 $x < 4$

2) $-1 \geq 8 + x$
 $-9 \geq x$

3) $x + 81 \leq 160$
 $x \leq 79$

8-81. Find the area and perimeter of the figure shown below. All angles are right angles. Show your work clearly.



$P = 4 + 4 + 5 + 4 + 8 + 2 + 10 + 10 + 3 + 3$
 $P = 30 + 10 + 10 = 50 \text{ cm}$

- 20-AH
- 19-AH
- 18-AH
- 17-A
- 16-BH
- 15-B
- 14-CH
- 13-C
- 12-DH
- 11-DH
- 10-F

8-90. Use inverse operations to solve each of the following equations. Show your work.

a) $5f = 15$
 $f = 3$

b) $\frac{3}{4}w = 6$
 $w = 8$

c) $16y = 9$
 $y = 5.625$

d) $\frac{p}{3} = 81$
 $p = 243$

8-94. Victor and Hugo were shooting baskets. Hugo made 6 out of his 10 shots. Victor made 10 out of his 15 shots.

a) Write each boy's shots as a ratio of shots made to shots missed.
 Hugo - 6:4
 Victor - 10:5

b) Who is the better shooter? Show all of your work and explain your reasoning clearly.
 Hugo = $\frac{6}{10} = 60\%$ made
 Victor = $\frac{10}{15} = \frac{2}{3} \approx 66\%$ made

Victor is the better shooter because he made a higher percentage of his baskets.

BONUS: $3x = 30$
 $48 = x + 12$