Textbook pg 162 # 4, 5, 6, 8, 24, 26, 28, 30

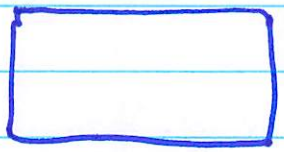
4) $2x+3+x+2x+3+x = 36$

$6x+6 = 36$

$-6 \quad -6$

$\frac{6x}{6} = \frac{30}{6}$

$x = 5$



Length = $2(5)+3 = 13$ yd

Width = $x = 5$ yd

5) $x + x+1 + x+2 = 915$

$3x+3 = 915$

$-3 \quad -3$

$\frac{3x}{3} = \frac{912}{3}$

$x = 304$

Let x = 1st Integer

Let $x+1$ = 2nd Integer

Let $x+2$ = 3rd Integer

$x \rightarrow 304$

$x+1 \rightarrow 305$

$x+2 \rightarrow 306$

6) a) x

b) 2

c) $x+2$

d) $x + x+2 = 118$

$2x+2 = 118$

$-2 \quad -2$

$\frac{2x}{2} = \frac{116}{2}$

$x = 58$

$x+2 = 60$

Let x = 1st Even Integer

Let $x+2$ = 2nd Even Integer

8) a) x

b) 2

c) $x+2$

d) $x+x+2=56$

$2x+2=56$

$-2 \quad -2$

$\frac{2x}{2} = \frac{54}{2}$

$x = 27$

$x+2 = 29$

Let x = 1st odd

Let $x+2$ = 2nd Odd

24) (1)

26) a) $n+n+1+n+2=126$

$3n+3=126$

$-3 \quad -3$

$\frac{3n}{3} = \frac{123}{3}$

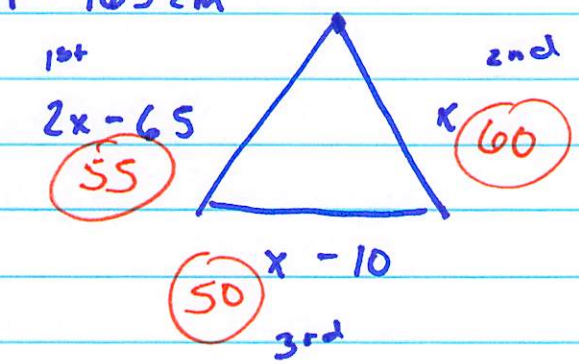
$n = 41 \quad n+1 = 42 \quad n+3 = 43$

Let n = 1st Integer

Let $n+1$ = 2nd Integer

Let $n+2$ = 3rd Integer

28) $P = 165$ cm



$2x - 65 + x + x - 10 = 165$

$4x - 75 = 165$

$+75 \quad +75$

$\frac{4x}{4} = \frac{240}{4}$

$x = 60$

3c) $x + x + 8 = -1 + 3(x+6)$

$2x + 8 = -1 + 3x + 18$

$2x + 8 = 17 + 3x$

$-2x \quad -2x$

$8 = 17 + x$

$-17 \quad -17$

$-9 = x$

Let x = 1st integer

Let $x+2$ = 2nd integer

Let $x+4$ = 3rd integer

Let $x+6$ = 4th integer

Let $x+8$ = 5th integer

-9	x
-7	$x+2$
-5	$x+4$
-3	$x+6$
-1	$x+8$