3.2.5.
HWK

3-113)

a) $3(5x+2) = 8x+20$

$15x+6 = 8x+20$

$-8x \quad -8x$

$7x+6 = 20$

$-6 \quad -6$

$7x = 14$

$\frac{7x}{7} = \frac{14}{7}$

$x = 2$

b) $-2(x-3)+4x = -(-x+1)$

$-2x+6+4x = x-1$

$2x+6 = x-1$

$+1 \quad +1$

$2x+7 = x$

$-2x \quad -2x$

$(-1)\,7 = -x\,(-1)$

$-7 = x$

3-114) a) $x+3x-3+2x^2+8x-5$

$4x-3+2x^2+8x-5$

$12x-8+2x^2$

b) $3y+14y^2-6y^2-9y+1-y-3y$

$8y^2-10y+1$

c) $2y^2 + 30xy - 2y^2 + 4y - 4x$

$30xy + 4y - 4x$

d) $x - 0.2x$

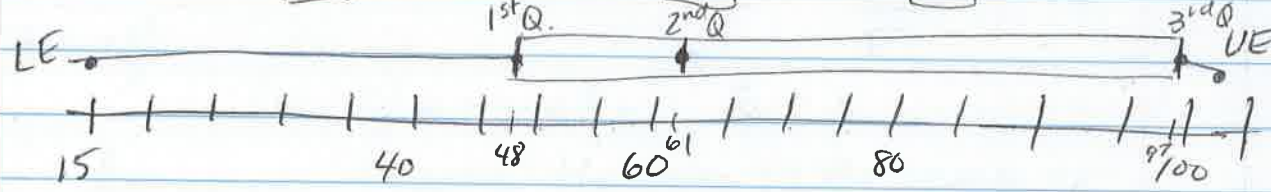
$0.8x$

3-115) median = 61 (2nd Q.)

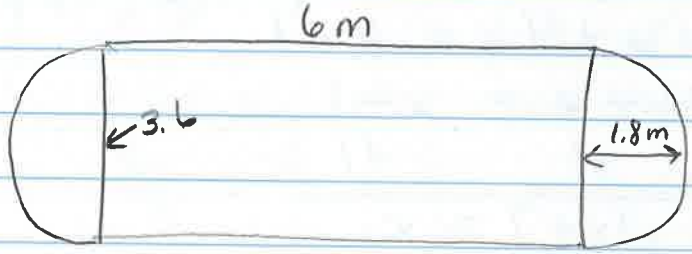
upper quartile = 97 (3rd Quartile)

lower quartile = 48 (1st Quartile or)

15 29 [48] 50 55 [61] 64 81 [97] 100 102



3-116)



CIRCLE

$A = \pi r^2$

$= 3.14 \cdot (1.8)^2$

$= 3.14 \cdot 3.24 = 10.17$ m area of 2, ½ circles.

1.8 + 1.8 = 3.6

radius + radius = diameter

$A = bh$

$= 3.6 \cdot 6$

$= 21.6$ m (area of rectangle)

total Area = 10.17 + 21.6 = 31.77 m^2

Perimeter = 6 + 6 + circumference of 2, ½ circles

$C = \pi d$

$= 3.14 \cdot 3.6 = 11.304 + 12 = 23.304$ m

3-117)

a) $\frac{2.25 \text{ lbs.}}{\$1.89} = \frac{\$1.89}{2.25 \text{ lbs}} = \frac{\$0.84}{1 \text{ lb.}}$

b) $\frac{9 \text{ g}}{15 \text{ cm}} = \frac{0.6 \text{ g}}{1 \text{ cm}}$

c) approx. $3.50 per bottle

d) $\frac{200 \text{ vit}}{\$4.75} = \frac{1 \text{ vit}}{0.02} = \frac{500 \text{ vit}}{\$11.88}$

e) $\frac{72}{85} = \frac{169 \text{ shots}}{200}$

$\times 2.3529$

f.) $\frac{\frac{1}{2} \text{ tsp. vanilla}}{3/4 \text{ c. flour}} = \frac{3.34 \text{ vanilla} \sim 3\frac{1}{3} \text{ tsp.}}{5 \text{ c flour}}$

$\times 6.67$