

8.3.2

HWK

8-74) $x = 30^\circ$

$$4x + 60 = 180$$

$$\underline{-60 \quad -60}$$

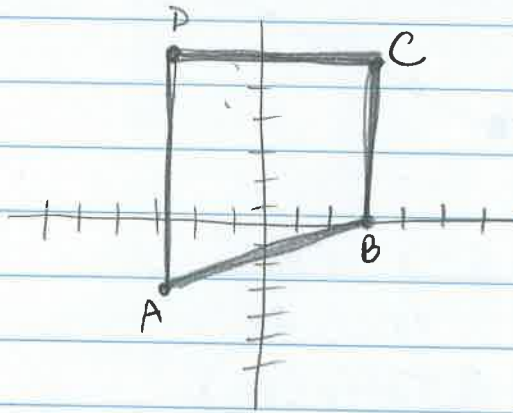
$$\frac{4x}{4} = \frac{120}{4}$$

$$x = 30$$

8-75)

- a) vertical
- b) complementary
- c) supplementary
- d) Adjacent

8-76)



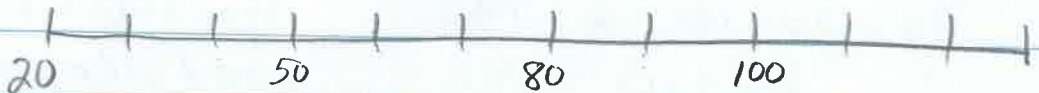
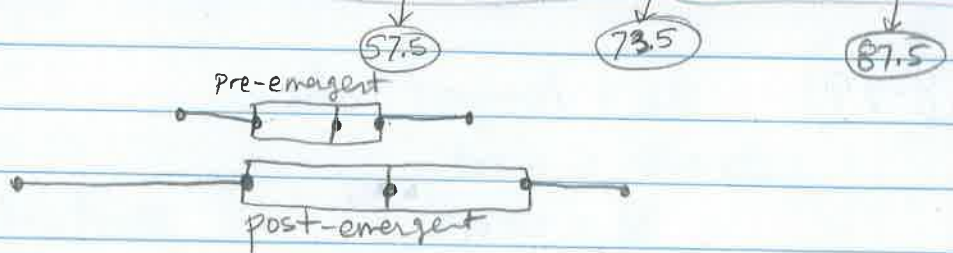
a) trapezoid

- b) $\angle A$ acute
- $\angle B$ obtuse
- $\angle C$ and $\angle D$ are right angles

8-77)

Pre-emergent 49 52 54 58 61 61 67 68 72 73 73 78 82 83

Post-emergent 29 35 48 57 58 65 68 73 74 85 86 87 88 91 94 97

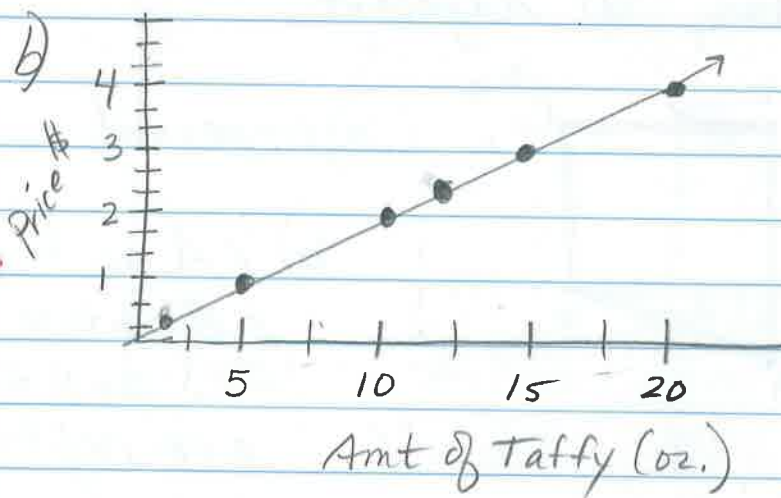


b) Yes, both distributions are fairly symmetric with no apparent outliers

c) Post-emergent thrushes. More than 75% of the pre-emergent thrushes weighed less than 75g, so that is not a likely candidate; 75g is closer to the median of post-emergent thrushes.

8-78)

| | | | | | | |
|----------------------|--------|--------|-----|--------|-----|-----|
| a) Amt of taffy (oz) | 2 | 5 | 10 | 12 | 15 | 20 |
| Price (\$) | \$0.40 | \$1.00 | \$2 | \$2.40 | \$3 | \$4 |



c) Yes, it is proportional because the data makes a straight line and goes thru (0,0)

8-79) $3x =$ longest side

$$2x + 10 = \text{med.}$$

$$x = \text{short}$$

$$3x + 2x + 10 + x = 142$$

$$6x + 10 = 142$$

$$\begin{array}{r} -10 \quad -10 \\ \hline 6x = 132 \\ \hline \frac{6x}{6} = \frac{132}{6} \end{array}$$

$$x = 22$$

$$\text{short side} = 22 \text{ cm}$$

$$\text{long side} = 3(22) = 66 \text{ cm}$$

$$\text{med side} = 2x + 10$$

$$2(22) + 10$$

$$44 + 10$$

$$54 \text{ cm}$$