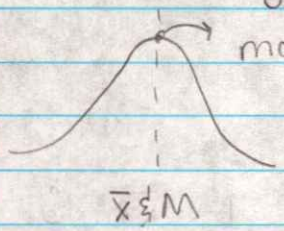
Key
4/14/20

Shapes of Distribution

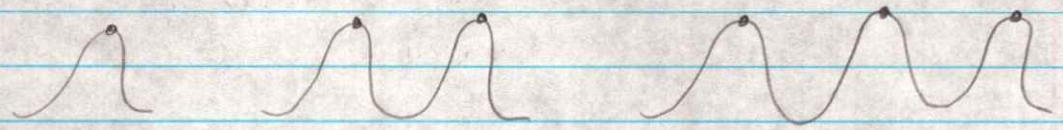
Ex1:



Symmetric

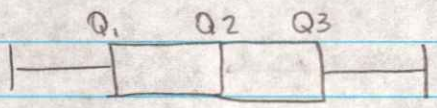
$\bar{x} = M = \text{mode}$

Ex2:



unimodal bimodal trimodal or multimodal

Ex3:

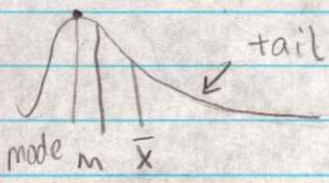


Symmetric

$Q_3 - Q_2 = Q_2 - Q_1$

Left whisker = right whisker

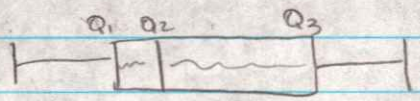
Ex4:



Skewed right or positive skew

$\bar{x} > M > \text{mode}$

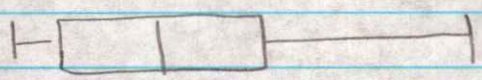
Ex5:



Skewed right (right box is longer)

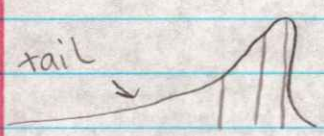
$Q_3 - Q_2 > Q_2 - Q_1$

OR



$Q_3 - Q_2 = Q_2 - Q_1$ (right whisker is longer)

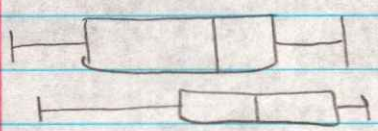
Ex6:



Skewed left or negative skew

$\bar{x} < M < \text{mode}$

Ex7:



$Q_2 - Q_1 > Q_3 - Q_2$ left box is Longer

$Q_2 - Q_1 = Q_3 - Q_2$ left whisker is longer