$$Z = \frac{x - \bar{x}}{s}$$ where $\bar{x}$ =mean of sample and s=sample standard deviation

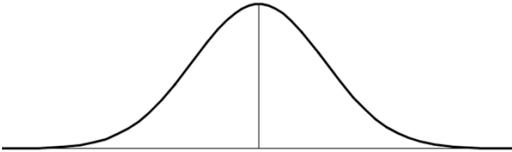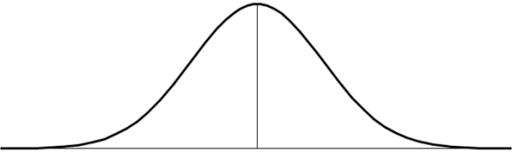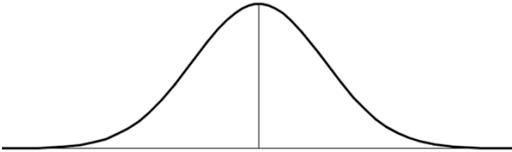| 1. Given a mean of 550 and standard deviation of 50 Determine P(x≤615) USING CHART Related z score and probability Z = _____ P(x≤615) = _____	Sketch the related normal curve with X scale	2. Given a mean of 550 and standard deviation of 50 Determine P(x≤585) USING CHART Related z score and probability Z = _____ P(x≤585) = _____	Sketch the related normal curve with X scale
3. Given a mean of 550 and standard deviation of 50 Determine P(x≥629) USING CHART Related z score and probability Z = _____ P(x≥629) = _____	Sketch the related normal curve with X scale	4. Given a mean of 550 and standard deviation of 50 Determine P(x≥675) USING CHART Related z score and probability Z = _____ P(x≥675) = _____	Sketch the related normal curve with X scale
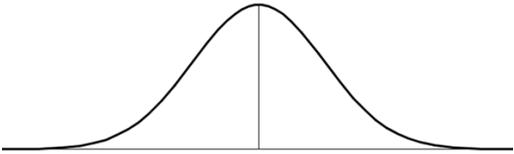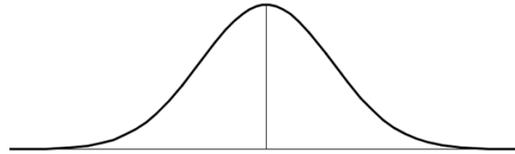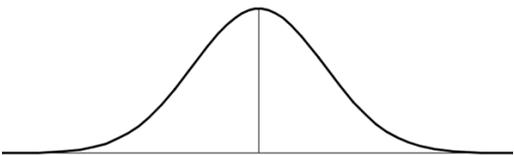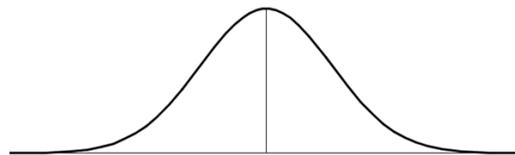
5. What specifically does a negative z score mean? Give an example that is related to having a mean of 100 and a standard deviation of 10
   Use the normal curve to help support explanation

$$Z = \frac{x - mean}{SD} \qquad X = Z(SD) + mean$$

6. Given a mean of 550 and standard deviation of 50 GIVEN P(x≤A)= 0.7357 USING CHART Determine related z score and x score Z = _____ A = _____	Sketch the related normal curve with X scale	7. Given a mean of 550 and standard deviation of 50 Determine P(x≤B)=0.1190 USING CHART Determine related z score and x score Z = _____ B= _____	Sketch the related normal curve with X scale
8. Given a mean of 550 and standard deviation of 50 Given P(x≥C) =0.8078 USING CHART Related z score and probability Z = _____ C = _____	Sketch the related normal curve with X scale	9. Given a mean of 550 and standard deviation of 50 Given P(x≥D) =0.1660 USING CHART Related z score and probability Z = _____ D = _____	Sketch the related normal curve with X scale
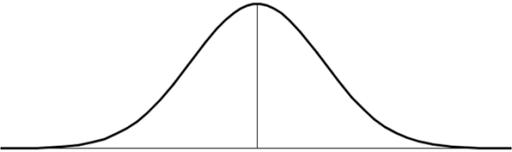
10. What specifically does a positive z score mean? Give an example that is related to having a mean of 100 and a standard deviation of 10
   Use the normal curve to help support explanation