Name_____Formative Assessment Basics of Normal Curve Date 1-9-19 First Hour

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

1. Given a mean of 250 and standard deviation of 50 Determine P(x≤215) USING CHART Related z score and probability Z = _____ P(x≤215) = _____	Sketch the related normal curve with X scale 	2. Given a mean of 250 and standard deviation of 50 Determine P(x≤285) USING CHART Related z score and probability Z = _____ P(x≤285) = _____	Sketch the related normal curve with X scale
3. Given a mean of 250 and standard deviation of 50 Determine P(x≥219) USING CHART Related z score and probability Z = _____ P(x≥219) = _____	Sketch the related normal curve with X scale 	4. Given a mean of 250 and standard deviation of 50 Determine P(x≥275) USING CHART Related z score and probability Z = _____ P(x≥275) = _____	Sketch the related normal curve with X scale
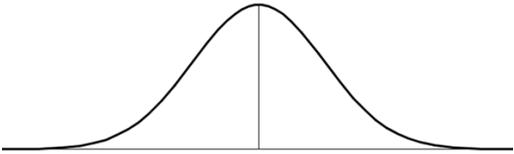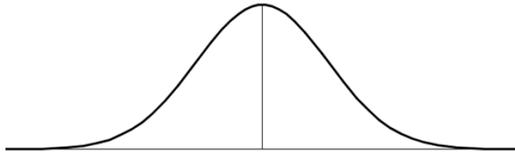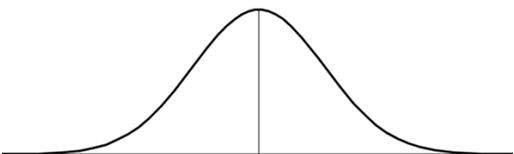
5. What specifically does a negative z score mean? Give an example that is related to having a mean of 100 and a standard deviation of 10
   Use the normal curve to help support explanation

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

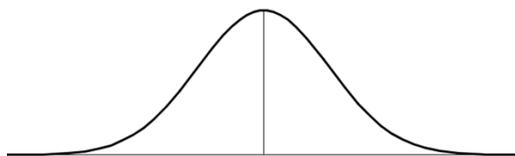| 6. Given a mean of 250 and standard deviation of 50 GIVEN P(x≤A)= 0.3409 USING CHART Determine related z score and x score Z = _____ A = _____	Sketch the related normal curve with X scale	7. Given a mean of 250 and standard deviation of 50 Determine P(x≤B)=0.9838 USING CHART Determine related z score and x score Z = _____ B= _____	Sketch the related normal curve with X scale
8. Given a mean of 250 and standard deviation of 50 Given P(x≥C) =0.7224 USING CHART Related z score and probability Z = _____ C = _____	Sketch the related normal curve with X scale	9. Given a mean of 250 and standard deviation of 50 Given P(x≥D) =0.0582 USING CHART Related z score and probability Z = _____ D = _____	Sketch the related normal curve with X scale
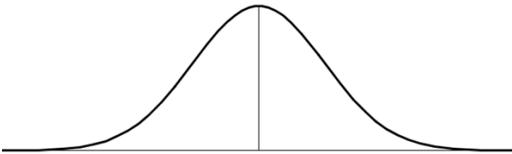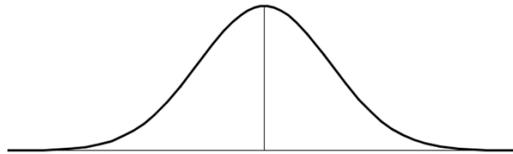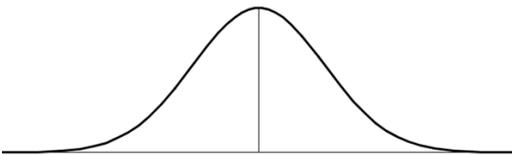
10. What specifically does a positive z score mean? Give an example that is related to having a mean of 100 and a standard deviation of 10
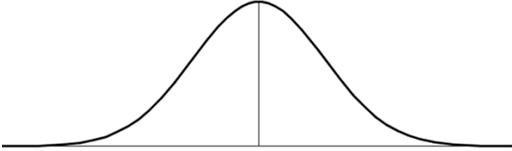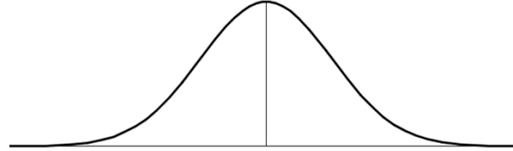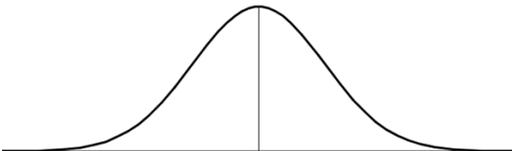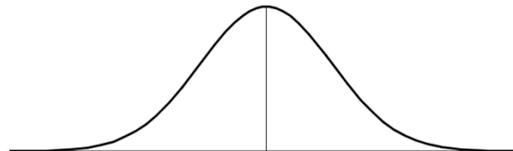Use the normal curve to help support explanation

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

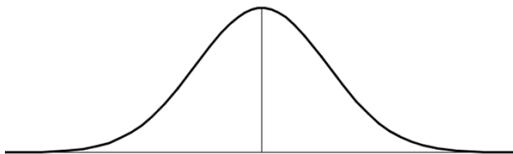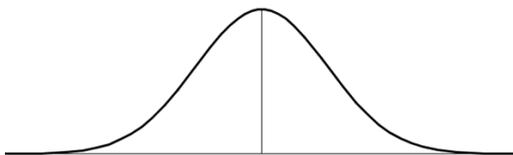| 1. Given a mean of 450 and standard deviation of 50 Determine P(x≤415) USING CHART Related z score and probability Z = _____ P(x≤415) = _____	Sketch the related normal curve with X scale	2. Given a mean of 450 and standard deviation of 50 Determine P(x≤485) USING CHART Related z score and probability Z = _____ P(x≤485) = _____	Sketch the related normal curve with X scale
3. Given a mean of 450 and standard deviation of 50 Determine P(x≥519) USING CHART Related z score and probability Z = _____ P(x≥519) = _____	Sketch the related normal curve with X scale	4. Given a mean of 450 and standard deviation of 50 Determine P(x≥375) USING CHART Related z score and probability Z = _____ P(x≥375) = _____	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 450 and standard deviation of 50 GIVEN P(x≤A)= 0.0951 USING CHART Determine related z score and x score Z = _____ A = _____	Sketch the related normal curve with X scale	7. Given a mean of 450 and standard deviation of 50 Determine P(x≤B)=0.7734 USING CHART Determine related z score and x score Z = _____ B= _____	Sketch the related normal curve with X scale
8. Given a mean of 450 and standard deviation of 50 Given P(x≥C) =0.1492 USING CHART Related z score and probability Z = _____ C = _____	Sketch the related normal curve with X scale	9. Given a mean of 450 and standard deviation of 50 Given P(x≥D) =0.8186 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
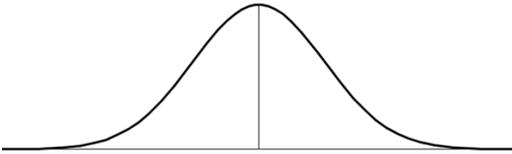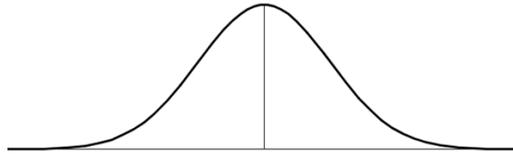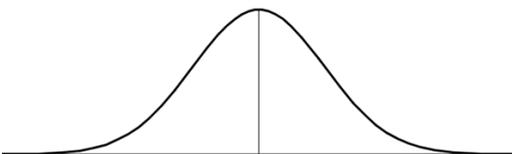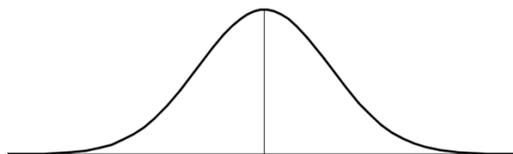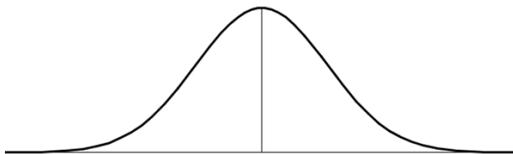   Use the normal curve to help support explanation

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

1. Given a mean of 750 and standard deviation of 50 Determine P(x≤815) USING CHART Related z score and probability Z = _____ P(x≤815) = _____	Sketch the related normal curve with X scale	2. Given a mean of 750 and standard deviation of 50 Determine P(x≤685) USING CHART Related z score and probability Z = _____ P(x≤685) = _____	Sketch the related normal curve with X scale
3. Given a mean of 750 and standard deviation of 50 Determine P(x≥719) USING CHART Related z score and probability Z = _____ P(x≥719) = _____	Sketch the related normal curve with X scale	4. Given a mean of 750 and standard deviation of 50 Determine P(x≥875) USING CHART Related z score and probability Z = _____ P(x≥875) = _____	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
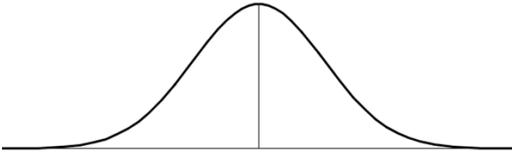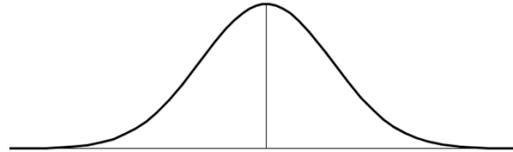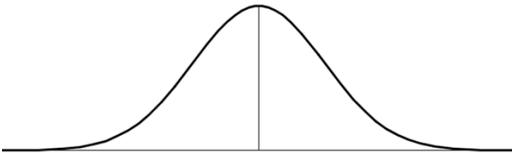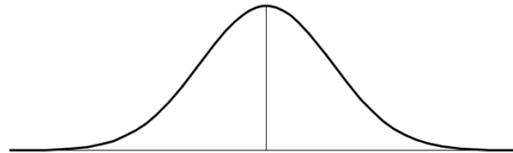   Use the normal curve to help support explanation

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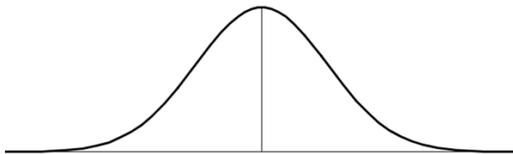|			
6. Given a mean of 750 and standard deviation of 50 GIVEN P(x≤A)= 0.5675 USING CHART Determine related z score and x score Z = _____ A = _____	Sketch the related normal curve with X scale	7. Given a mean of 750 and standard deviation of 50 Determine P(x≤B)=0.0322 USING CHART Determine related z score and x score Z = _____ B= _____	Sketch the related normal curve with X scale
8. Given a mean of 750 and standard deviation of 50 Given P(x≥C) =0.7389 USING CHART Related z score and probability Z = _____ C = _____	Sketch the related normal curve with X scale	9. Given a mean of 750 and standard deviation of 50 Given P(x≥D) =0.0132 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
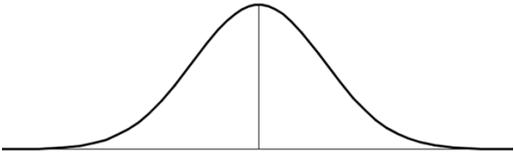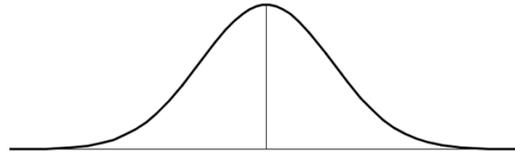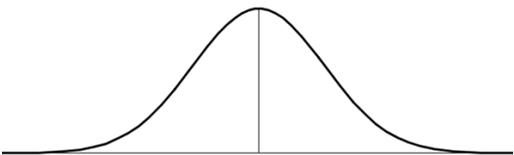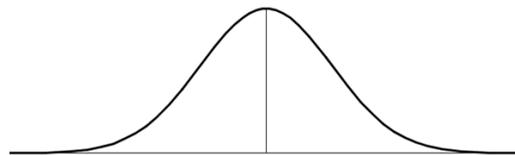   Use the normal curve to help support explanation

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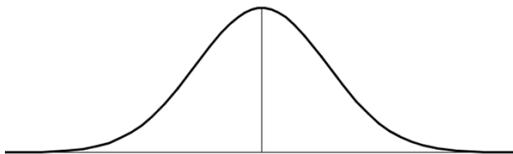|	
1. Given a mean of 950 and standard deviation of 50 Determine P(x≤1015) USING CHART Related z score and probability Z = _____ P(x≤1015) = _____	Sketch the related normal curve with X scale
2. Given a mean of 950 and standard deviation of 50 Determine P(x≤885) USING CHART Related z score and probability Z = _____ P(x≤885) = _____	Sketch the related normal curve with X scale
3. Given a mean of 950 and standard deviation of 50 Determine P(x≥919) USING CHART Related z score and probability Z = _____ P(x≥919) = _____	Sketch the related normal curve with X scale
4. Given a mean of 950 and standard deviation of 50 Determine P(x≥975) USING CHART Related z score and probability Z = _____ P(x≥975) = _____	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

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6. Given a mean of 950 and standard deviation of 50 GIVEN P(x≤A)= 0.6985 USING CHART Determine related z score and x score Z = _____ A = _____	Sketch the related normal curve with X scale	7. Given a mean of 950 and standard deviation of 50 Determine P(x≤B)=0.0188 USING CHART Determine related z score and x score Z = _____ B= _____	Sketch the related normal curve with X scale
8. Given a mean of 950 and standard deviation of 50 Given P(x≥C) =0.2514 USING CHART Related z score and probability Z = _____ C = _____	Sketch the related normal curve with X scale	9. Given a mean of 950 and standard deviation of 50 Given P(x≥D) =0.9616 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