Name_____Formative Assessment Basics of Normal Curve OR and AND missing x Date 1-22-19 Hour _____

$Z = \frac{x - \bar{x}}{s}$ where $\bar{x}$ =mean of sample and s=sample standard deviation $Z = \frac{x - mean}{SD}$ $X = Z(SD) + mean$

1. Given a mean of 850 and standard deviation of 50

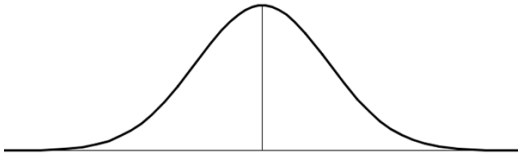
Determine P(A≤x≤925)=0.3856

USING CHART
Related z score
and probability

Z = _____ Z for A_____

A = _____

Sketch the related normal curve with X scale



2. Given a mean of 850 and standard deviation of 50

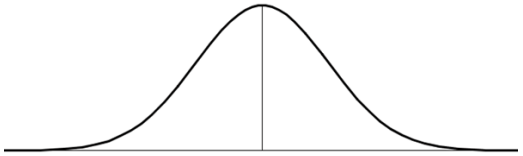
Determine P(795≤x≤B)=0.1074

USING CHART
Related z score
and probability

Z = _____ Z for B_____

B = _____

Sketch the related normal curve with X scale



3. Given a mean of 850 and standard deviation of 50

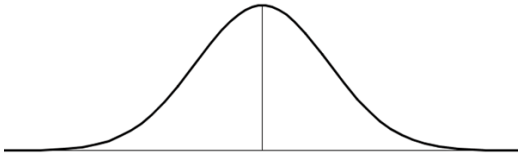
GIVEN P(x≤A) OR P(x≥875) =0.5368

USING CHART
Related z score
and probability

Z = _____ Z for A_____

A = _____

Sketch the related normal curve with X scale



4. Given a mean of 850 and standard deviation of 50

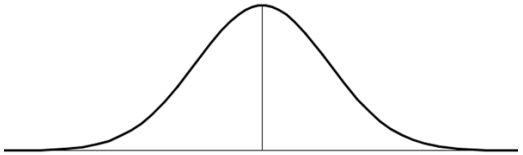
GIVEN P(x≤880) OR P(x≥B) =0.7387

USING CHART
Determine related z score
and x score

Z = _____ Z for B _____

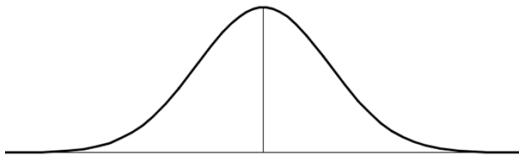
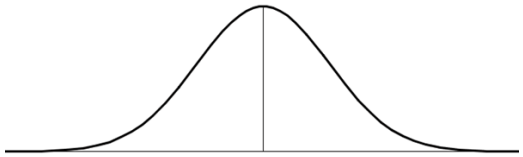
B = _____

Sketch the related normal curve with X scale



Use the normal curve to help answer these questions

Assume a mean of 100 and a standard deviation of 10

5. Graph P(x< 80) or P(x>90) on the provided normal curve 	6. Which of the following do you know automatically because you know OR? Use P(x< 80) or P(x>90) to help answer this question a. P(80<x<90) b. P(x<80) c. P(x>90) d. None of these
7. Graph P(90<x< 100) on the provided normal curve 	8. Which of the following do you know automatically because you know AND? Use P(90<x< 100) to help answer this question a. P(x< 90) or P(x>100) b. P(x<90) c. P(x>100) d. None of these

Name_____Formative Assessment Basics of Normal Curve OR and AND missing x Date 1-22-19 Hour _____

$Z = \frac{x - \bar{x}}{s}$ where $\bar{x}$ =mean of sample and s=sample standard deviation $Z = \frac{x - mean}{SD}$ $X = Z(SD) + mean$

1. Given a mean of 750 and standard deviation of 50

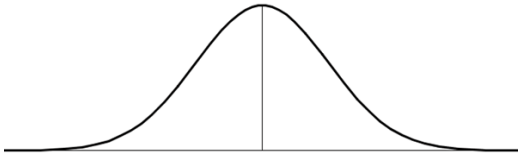
Determine P(A≤x≤725)=0.2879

USING CHART
Related z score
and probability

Z = _____ Z for A_____

A = _____

Sketch the related normal curve with X scale



2. Given a mean of 750 and standard deviation of 50

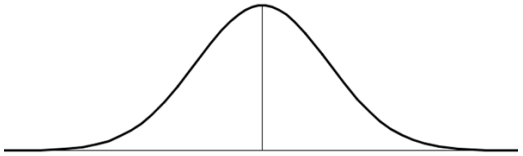
Determine P(755≤x≤B)=0.2074

USING CHART
Related z score
and probability

Z = _____ Z for B_____

B = _____

Sketch the related normal curve with X scale



3. Given a mean of 750 and standard deviation of 50

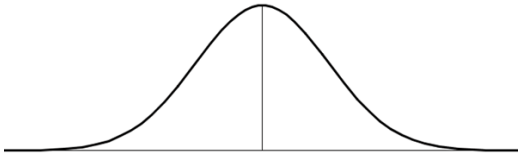
GIVEN P(x≤A) OR P(x≥775) =0.5918

USING CHART
Related z score
and probability

Z = _____ Z for A_____

A = _____

Sketch the related normal curve with X scale



4. Given a mean of 750 and standard deviation of 50

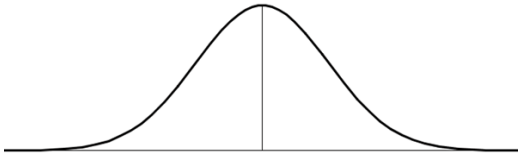
GIVEN P(x≤780) OR P(x≥B) =0.8498

USING CHART
Determine related z score
and x score

Z = _____ Z for B _____

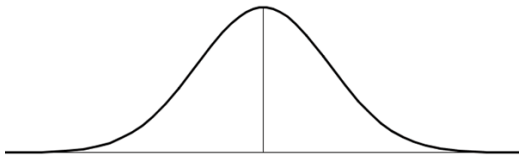
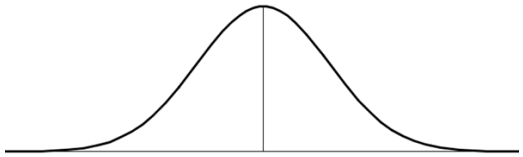
B = _____

Sketch the related normal curve with X scale



Use the normal curve to help answer these questions

Assume a mean of 100 and a standard deviation of 10

5. Graph P(x< 80) or P(x>90) on the provided normal curve 	6. Which of the following do you know automatically because you know OR? Use P(x< 80) or P(x>90) to help answer this question a. P(80<x<90) b. P(x<80) c. P(x>90) d. None of these
7. Graph P(90<x< 100) on the provided normal curve 	8. Which of the following do you know automatically because you know AND? Use P(90<x< 100) to help answer this question a. P(x< 90) or P(x>100) b. P(x<90) c. P(x>100) d. None of these

Name_____Formative Assessment Basics of Normal Curve OR and AND missing x Date 1-22-19 Hour _____

$Z = \frac{x - \bar{x}}{s}$ where $\bar{x}$ =mean of sample and s=sample standard deviation $Z = \frac{x - mean}{SD}$ $X = Z(SD) + mean$

1. Given a mean of 700 and standard deviation of 50

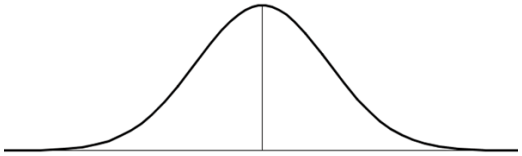
Determine P(A≤x≤725)=0.2879

USING CHART
Related z score
and probability

Z = _____ Z for A_____

A = _____

Sketch the related normal curve with X scale



2. Given a mean of 700 and standard deviation of 50

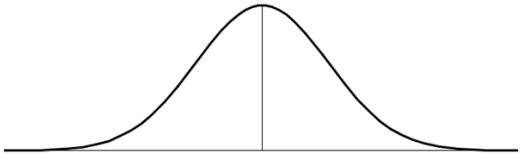
Determine P(695≤x≤B)=0.3079

USING CHART
Related z score
and probability

Z = _____ Z for B_____

B = _____

Sketch the related normal curve with X scale



3. Given a mean of 700 and standard deviation of 50

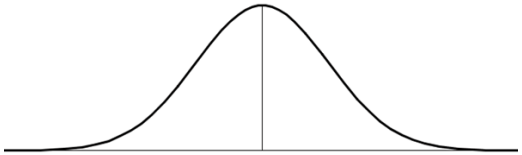
GIVEN P(x≤A) OR P(x≥765) =0.5918

USING CHART
Related z score
and probability

Z = _____ Z for A_____

A = _____

Sketch the related normal curve with X scale



4. Given a mean of 700 and standard deviation of 50

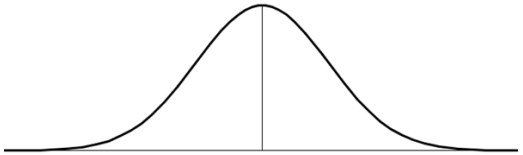
GIVEN P(x≤730) OR P(x≥B) =0.7984

USING CHART
Determine related z score
and x score

Z = _____ Z for B _____

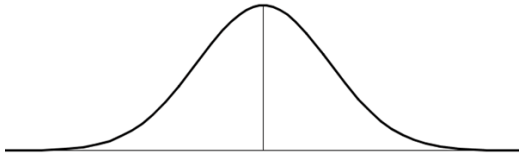
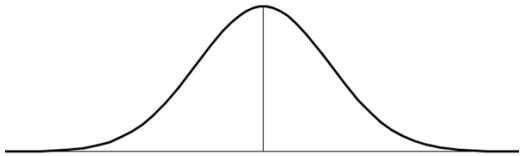
B = _____

Sketch the related normal curve with X scale



Use the normal curve to help answer these questions

Assume a mean of 100 and a standard deviation of 10

5. Graph P(x< 80) or P(x>90) on the provided normal curve 	6. Which of the following do you know automatically because you know OR? Use P(x< 80) or P(x>90) to help answer this question a. P(80<x<90) b. P(x<80) c. P(x>90) d. None of these
7. Graph P(90<x< 100) on the provided normal curve 	8. Which of the following do you know automatically because you know AND? Use P(90<x< 100) to help answer this question a. P(x< 90) or P(x>100) b. P(x<90) c. P(x>100) d. None of these

Name_____Formative Assessment Basics of Normal Curve OR and AND missing x Date 1-21-19 Hour _____

$Z = \frac{x - \bar{x}}{s}$ where $\bar{x}$ =mean of sample and s=sample standard deviation $Z = \frac{x - mean}{SD}$ $X = Z(SD) + mean$

1. Given a mean of 650 and standard deviation of 50

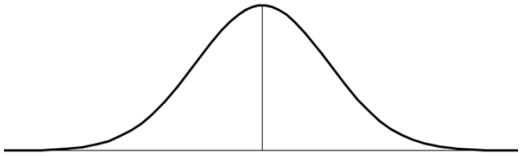
Determine P(A≤x≤625)=0.1779

USING CHART
Related z score
and probability

Z = _____ Z for A_____

A = _____

Sketch the related normal curve with X scale



2. Given a mean of 650 and standard deviation of 50

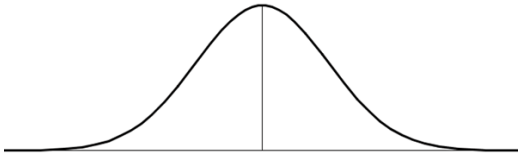
Determine P(655≤x≤B)=0.2874

USING CHART
Related z score
and probability

Z = _____ Z for B_____

B = _____

Sketch the related normal curve with X scale



3. Given a mean of 650 and standard deviation of 50

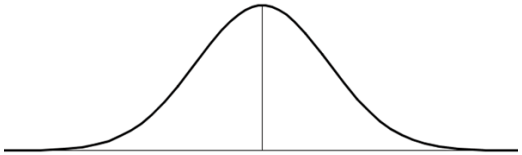
GIVEN P(x≤A) OR P(x≥625) =0.8918

USING CHART
Related z score
and probability

Z = _____ Z for A_____

A = _____

Sketch the related normal curve with X scale



4. Given a mean of 650 and standard deviation of 50

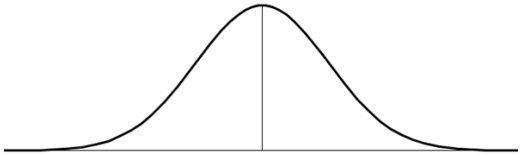
GIVEN P(x≤680) OR P(x≥B) =0.8125

USING CHART
Determine related z score
and x score

Z = _____ Z for B _____

B = _____

Sketch the related normal curve with X scale



Use the normal curve to help answer these questions

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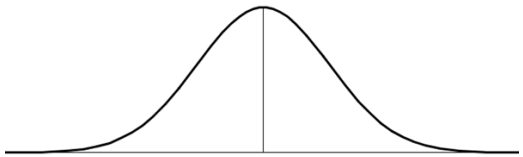
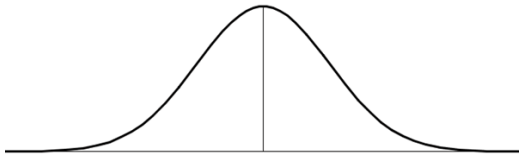
5. Graph P(x< 80) or P(x>90) on the provided normal curve 	6. Which of the following do you know automatically because you know OR? Use P(x< 80) or P(x>90) to help answer this question e. P(80<x<90) f. P(x<80) g. P(x>90) h. None of these
7. Graph P(90<x< 100) on the provided normal curve 	8. Which of the following do you know automatically because you know AND? Use P(90<x< 100) to help answer this question i. P(x< 90) or P(x>100) j. P(x<90) k. P(x>100) l. None of these