Teach

Learn

Research

Play

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#### Welcome to Statistics in Schools

Statistics in Schools is a statistics education site that can give lesson content to teachers, and help students with their grades. It focuses on statistics using real world data that's also useful for teaching and learning social science. SIS is run by the Census, but is a separate site from Census.gov.

#### **Teachers**



Did you know that the SIS teaching and learning tools map to standards and adapt to your classroom?



#### What's New

Statistics in Schools

New type of activity available

Census staff teach math at local HS

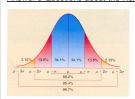
Federal Statistical Agencies

300 new maps uploaded by BEA

New aviation safety dataset available from FedStats

#### Featured Activity

Answer 5 Questions about the Normal Curve



Answer these 5 questions about the Normal Curve to prove you have what it takes to make it out of the 6th grade!

Covers Statistics, Grade 6, Variability, 6.SP.1

See this activity in Teach or Start it now in Learn!

#### Featured Research

US Populations Map 1912



Compiled from early 20th century Census results, this 4-color map shows the US before the large migrations out of the 1930s dust bowl. Covers History, Era 7, 1890-1920

See this map in Research

#### Featured Tool

QuickFacts



QuickFacts can give you all sorts of data. Find demographics and business information about your community. This takes results from the 2010 Census.

See this tool in Research or Use it now!

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Logo					About SIS	Standards	Census.gov
(Home)	Teach	Learn	Research	Play	Search	SIS:	GO

#### About Statistics In Schools

#### Who We Are

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#### What We Do

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#### Standards Information

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#### Standards

#### Career Information

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Careers	
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Elementary School Math	4
Middle School Statistics	$\triangleleft$
High School Statistics	4
History	4
Geography	4

#### **Standards Introduction**

These are the standards adopted on this site. Here you can see all the standards by type, and link to pages with the items for each standard.

Learn more about the Core Common State Standards for Math

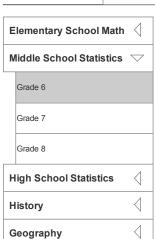
Learn more about the UCLA History Standards for US History

Logo (Horne)

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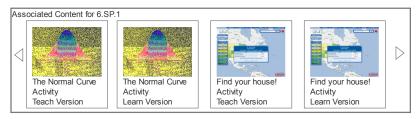
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#### Grade 6 Standards: Variability & Distributions

Develop understanding of statistical variability.

6.SP.1. Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers. For example, "How old am !?" is not a statistical question, but "How old are the students in my school?" is a statistical question because one anticipates variability in students' ages.



6.SP.2. Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.



6.SP.3. Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.



6.SP.4. Display numerical data in plots on a number line, including dot plots, histograms, and box plots.

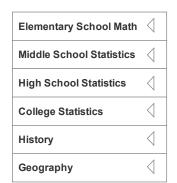


- 6.SP.5. Summarize numerical data sets in relation to their context, such as by:
  - \* Reporting the number of observations.
  - \* Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.
  - \* Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.
  - \* Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.



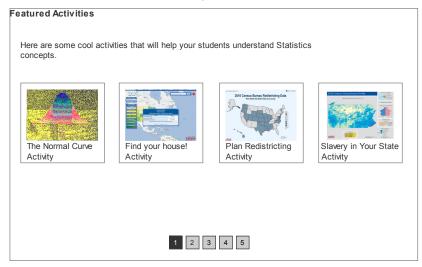
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#### Teach

Find activities, lessons, and other content to use in your classroom.



#### Adhering to Standards

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#### Census In Schools

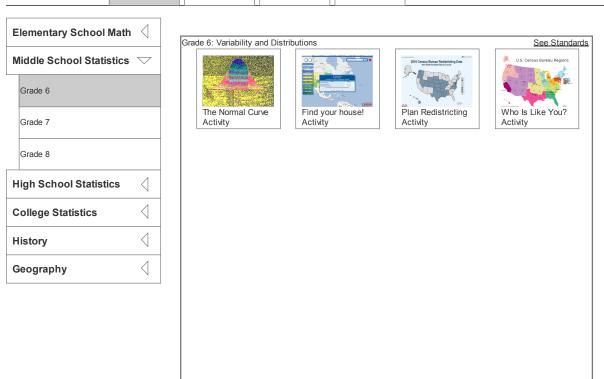
The most important survey ever is held every 10 years. The results make history. It's something your students are hearing about at home. Use it in class!

Activities for Census 2020!

Census 2010 Archive

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United States Census Bureau

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#### Answer 5 Questions about the Normal Curve

About this Activity
Statistics, Grade 6, Variability, 6.SP.1

Description: Answer these 5 questions about the Normal Curve to prove your kids have what it takes to make it out of the 6th grade!

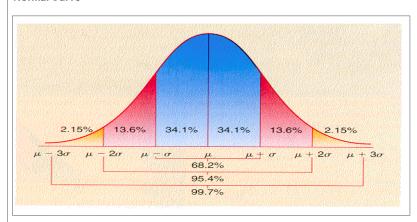
Tags: Normal, parabola, percentages, standard deviations

Link: http://www.census.gov/schools/AFG6eU

Copy

Share

#### **Normal Curve**



#### **Activity Instructions**

Look at this image and answer these questions. Hint: remember standard deviations?

#### **Activity Questions**

Question #1: If you add two standard deviations together, what do you get? Answer: 42.

**Question #2:** What is an example of using the Normal Curve in the real world? Answer: Students should give an answer such as "finding people's heights" or "finding people's weights."

Question #3: Open Discussion Question: How do you feel about the Normal Curve?

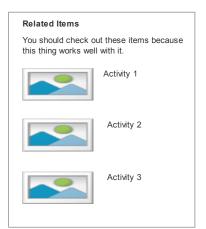
**Question #4:** Give an example of how you would use this in your life.

Answer: This is a complex question with a complex answer. This is a complex question with a complex answer. This is a complex question with a complex answer. This is a complex question with a complex answer. This is a complex question with a complex answer. This is a complex question with a complex answer. This is a complex question with a complex answer. This is a complex question with a complex answer.

Use this activity now

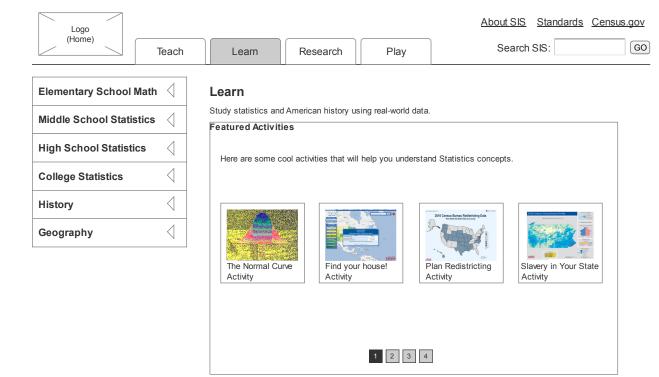
Print

Save as PDF

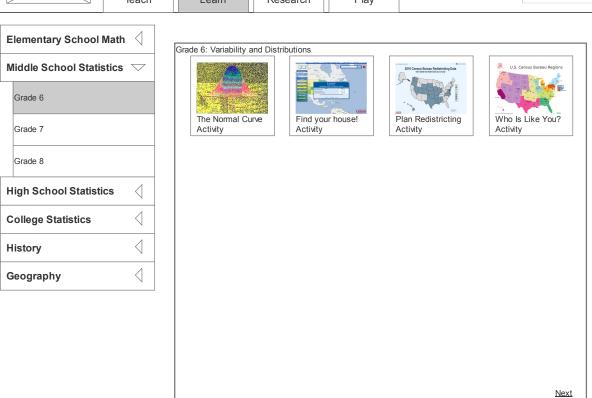


#### Instructions for Teachers

This usually takes my kids 10-15 minutes. I do it after the other activity up there in the related items





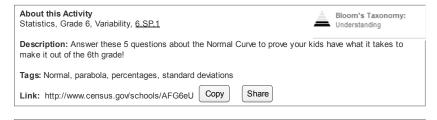


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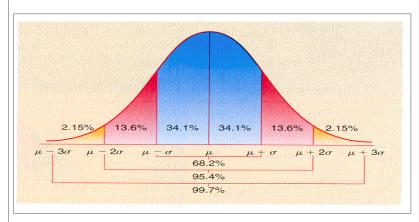
United States Census Bureau



#### Answer 5 Questions about the Normal Curve



#### **Normal Curve**





Look at this image and answer these questions. Hint: remember standard deviations?

#### **Activity Questions**

Question #1: If you add two standard deviations together, what do you get?

Question #2: What is an example of using the Normal Curve in the real world?

Question #3: Open Discussion Question: How do you feel about the Normal Curve?

Question #4: Give an example of how you would use this in your life.

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#### By Type

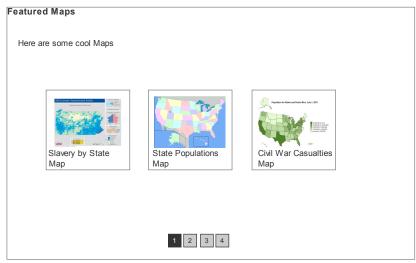
Maps
Diagrams
Tables
Multimedia
Tools

#### History

1754-1820s
Revolution and the New Nation
1801-1861
Expansion and Reform
1850-1877
Civil War and Reconstruction
1870-1900
The Development of US Industry
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The Great Depression and WWII
1945-1970s
Postwar United States
1968-Present
Contemporary United States

#### Research

Here are research materials that you can adapt for use in your class, or download for a report.





#### By Type

# Maps Diagrams Tables Multimedia Tools

#### History

1754-1820s
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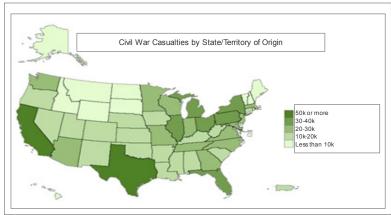
#### Maps

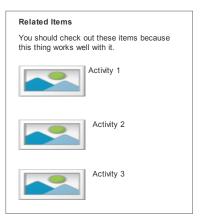




#### **Civil War Casualties**









#### By Type

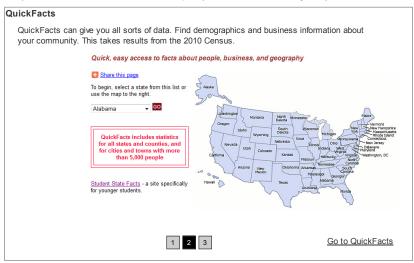
Maps
Diagrams
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1754-1820s Revolution and the New Nation
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#### Tools

Every tool has a different intent and level of complexity. Choose the one that's right for you.



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#### QuickFacts





QuickFacts can give you all sorts of data. Find demographics and business information about your community. This takes results from the 2010 Census.

By law, no one is permitted to reveal information from these censuses and surveys that could identify any person, household, or business.

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#### Use QuickFacts Tool



# Related Items You should check out these items because this thing works well with it. Dataset created from QuickFacts Activity using the dataset created from QuickFacts Activity 3

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Research

To use this interactive site, you need Adobe® Flash® player 8.0 or higher. Go to www.adobe.com → to download a free copy of the latest Adobe Flash player. This symbol → indicates a link to a non-government web site. Our linking to these sites does not constitute an endorsement of any products, services or the information found on them. Once you link to another site you are subject to the policies of the new site.

Census for Kids Song
- Sheet music [PDF]
- Audio file [WAV]

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Collaborate Play

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#### Today's Featured Research

US Populations Map 1912

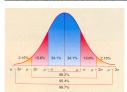


Compiled from early 20th century Census results, this 4-color map shows the US before the large migrations out of the 1930s dust bowl. President Wilson refered to this data when he...

See this map in Research

#### Today's Featured Activity

Answer 5 Questions about the Normal Curve



Author: GeorgiaTeacherl33t

Answer these 5 questions about the Normal Curve to prove your kids have what it takes to make it out of the 6th grade!

See this activity in Teach or Start it now!

#### Featured Tool

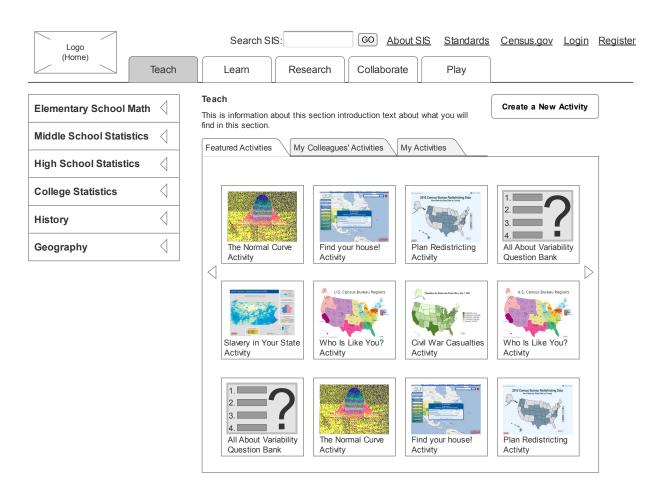
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QuickFacts can give you all sorts of data. Find demographics and business information about your community. This takes results from the 2010 Census.

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Activities for Census 2020!

Census 2010 Archive

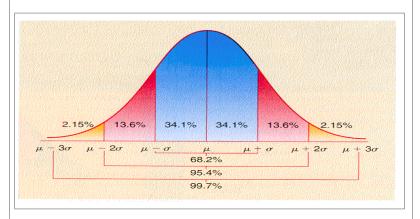
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#### Answer 5 Questions about the Normal Curve



#### **Normal Curve**



#### **Activity Instructions**

This usually takes my kids 10-15 minutes. I do it after the other activity up there in the related items

#### **Activity Questions**

Use this activity in class

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#### Related Items

You should check out these items because this thing works well with it.



Activity 1



Activity 2



Activity 3

#### Instructions for Teachers

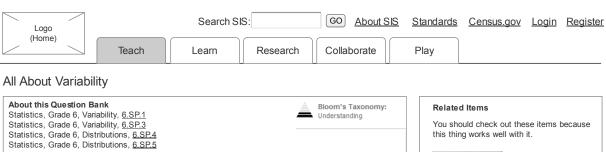
This usually takes my kids 10-15 minutes. I do it after the other activity up there in the related items

#### Collaborate

- How to like to use this activity
- Suggested mods to this activity

Create a new thread on this activity

Tweak this item to create your own activity!



Description: This question list will test students' understanding of variability with questions ranging across several Grade 6 standards.

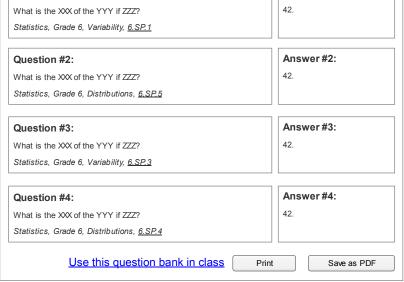
Tags: Normal, parabola, percentages, standard deviations

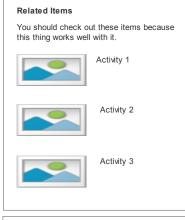
Link: http://www.census.gov/schools/AFG6eU Copy Share

Question #1:

What is the XXX of the YYY if ZZZ?

Statistics, Grade 6, Variability, 6.SP.1





# I like to use this one as a pop quiz after I do activity XYZ up there in the related items.

Instructions for Teachers

#### Collaborate

- How to like to use these questions
- Suggested mods to this list of Qs

Create a new thread on this question bank

Select questions to create your own question bank!



#### **Create New Activity**

#### What type of activity do you want to create?

#### Answer questions about real-world data



Ask your students to interpret **real-world data** collected by Census!

This activity increases comprehension.

Your activity will automatically be tagged with the same **academic standards** as the Census data.

You will go to the **Research tab** to choose the real-world data, and then you will be able to define your questions.

#### Answer questions to test students by standard



Make a list of tried-and-true questions for **your students' needs**, already created for you by Census experts!

This activity tests students understanding of standards.

Your question bank will automatically be tagged with the same **academic standards** as all the questions you include within it.

You will go to the **Learn tab** to pick out your questions from the existing question banks.

LogYou are choosing among research items to create an activity. Click "Use me!" on a login Register (Horresearch item to continue. To cancel and return to the Teach tab, click here.

Research Collaborate Play

#### By Type

Maps
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Teach Research Collaborate Play

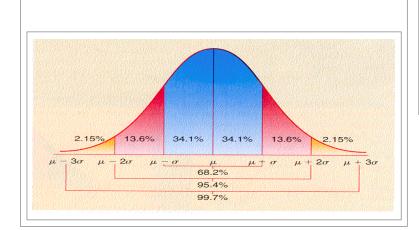
#### **Normal Curve**

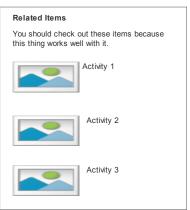
Click here to use this item in your activity!

About this Image
History, Era 3, <u>1754-1820s: Revolution and the New Nation</u>

Description: This is a description of the Normal Curve

Tags: Normal, parabola, percentages, standard deviations

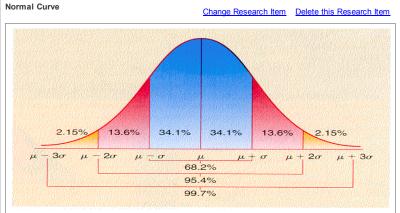






#### Answer 5 Questions about the Normal Curve Edit Title

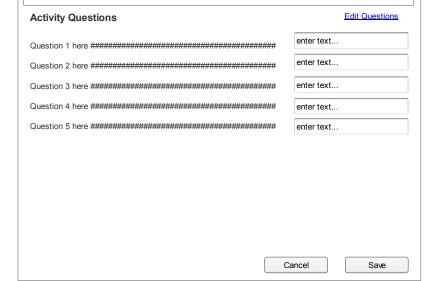


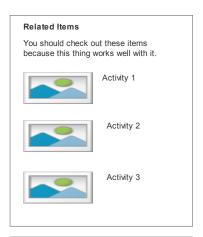


#### Add another Research Item

#### Activity Instructions Edit Instructions

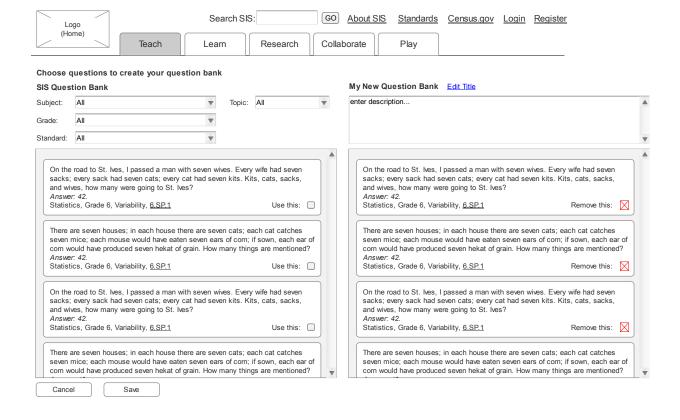
This usually takes my kids 10-15 minutes. I do it after the other activity up there in the related items  $\frac{1}{2}$ 



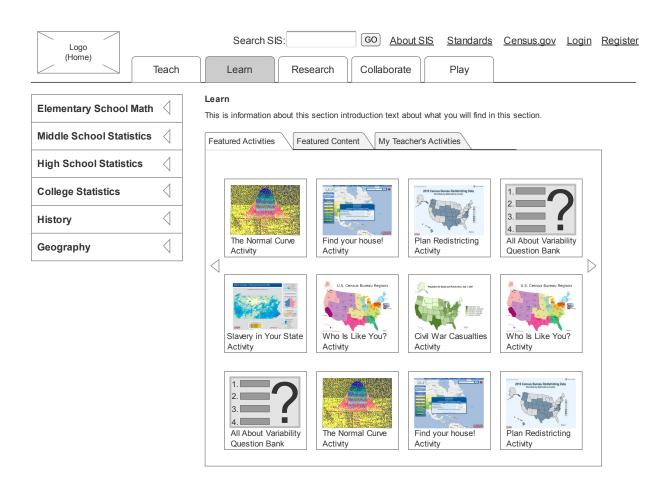


#### Instructions for Teachers Edit Instructions

This usually takes my kids 10-15 minutes. I do it after the other activity up there in the related items



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#### Answer 5 Questions about the Normal Curve

2.15%

30

13.6%

 $2\sigma$ 



## Related Items You should check out these items because this thing works well with it. Activity 1 Activity 2 **Normal Curve** Activity 3

### **Activity Instructions** Look at this image and answer these questions. Hint: remember standard deviations? **Activity Questions**

68.2% 95.4% 99.7%

34.1%

34.1%

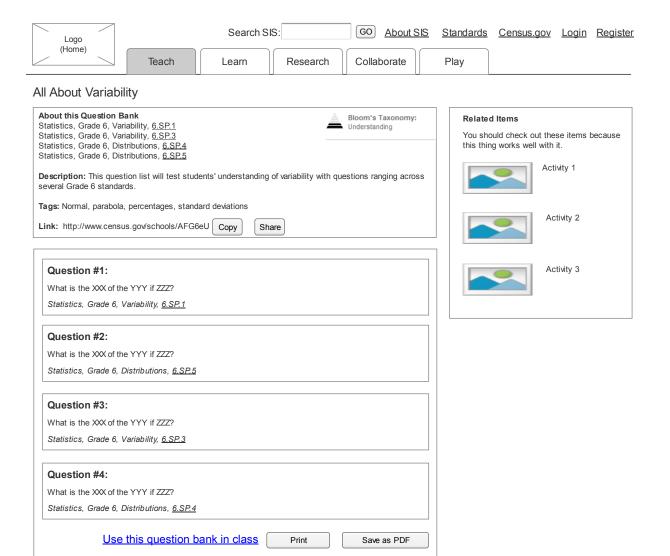
13.6%

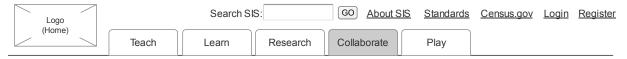
Question #1: If you add two standard deviations together, what do you get? Question #2: What is an example of using the Normal Curve in the real world?

Question #3: Open Discussion Question: How do you feel about the Normal Curve?

Question #4: Give an example of how you would use this in your life.

Use this activity Print Save as PDF





#### Welcome to the Forums

Threads	Latest Post	Total Posts
Forum FAQ (Read this first!)	9/14/2013 - 3:14pm	12
Help using Stats in Schools	9/14/2013 - 3:14pm	300
Generic Teacher Forum	9/14/2013 - 3:14pm	1500
Generic Student Forum	9/14/2013 - 3:14pm	1500
Check out my new activity I made!	9/14/2013 - 3:14pm	30
How do I use AFF to get zipcodes	9/14/2013 - 3:14pm	30
Let's share interesting correlations	9/14/2013 - 3:14pm	30
Need simpler way to explain variance	9/14/2013 - 3:14pm	30
Post your favorite word problem	9/14/2013 - 3:14pm	30
Thread name here	9/14/2013 - 3:14pm	303
Thread name here	9/14/2013 - 3:14pm	103
Thread name here	9/14/2013 - 3:14pm	30
Thread name here	9/14/2013 - 3:14pm	30
Thread name here	9/14/2013 - 3:14pm	30

Create New Thread