

Texas EOC Exam Success No. 1: Preparing Grade Eight Math Students Starting on Day One



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Presentation Objectives

- Explore a variety of ways the TI Graphing Technology can help your students feel confident going into the 8th Grade Texas EOC.
- Participants will receive strategies that can help students to save time and avoid mistakes.
- Participants will leave with a link to step-by-step tutorial guides (including videos) to help you and your students make the most of graphing technology.
- The TI-Nspire CX, TI-Nspire CX II, and TI-84+ CE handhelds are acceptable for use on the Texas EOC Grade 8 and Algebra 1 EOC exams.

8th Grade Assessment Examples

Encourage deeper mathematical understanding through grading in context

8th Grade Assessment Examples

1. What is the rate of change of the line given by the table below?

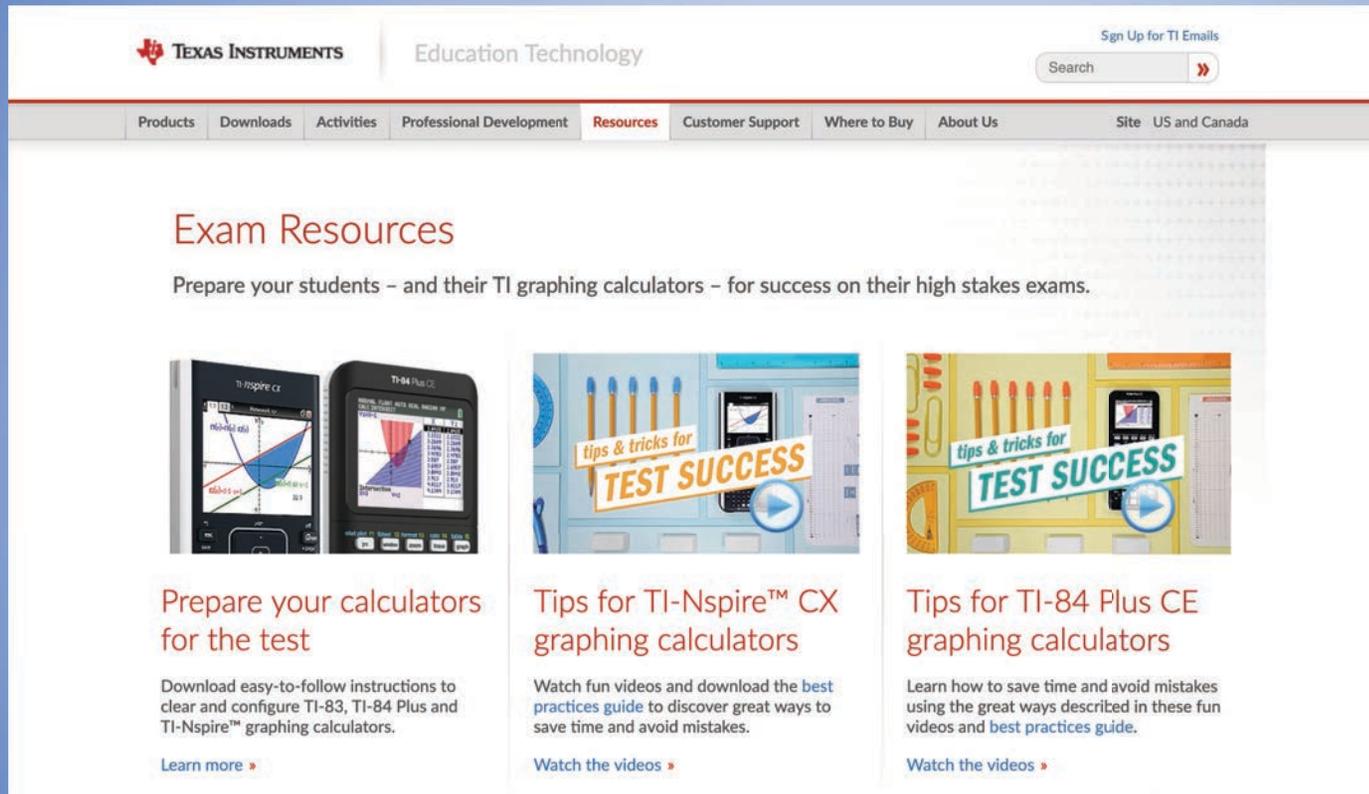
x	y
-3	-16
-1	-10
2	-1
6	11

Rewrite Formula/Problem (+5 Pt):

Work Shown (+15 Potential Pts):

Solution: (+5 Pt): _____

Exam Preparation Resources:



The screenshot shows the Texas Instruments Education Technology website. The header includes the TI logo, "Education Technology", a search bar, and a "Sign Up for TI Emails" link. The navigation menu contains: Products, Downloads, Activities, Professional Development, Resources (highlighted), Customer Support, Where to Buy, About Us, and Site US and Canada.

Exam Resources

Prepare your students – and their TI graphing calculators – for success on their high stakes exams.



Prepare your calculators for the test

Download easy-to-follow instructions to clear and configure TI-83, TI-84 Plus and TI-Nspire™ graphing calculators.

[Learn more >](#)



Exam Preparation Resources: Prepare your calculators for the test

The screenshot shows the Texas Instruments Education Technology website. The navigation bar includes links for Products, Downloads, Activities, Professional Development, Resources, Customer Support, Where to Buy, About Us, and Site US and Canada. A search bar and a "Sign Up for TI Emails" link are also present. The main content area is titled "Exam Resources" and features a sub-header: "Prepare your students and their TI graphing calculators - for success on their high stakes exams." Below this, there are three resource cards. The first card, titled "Prepare your calculator for the test", is circled in red and includes a red circle around the image of two calculators. The second card is titled "Tips for TI-Nspire™ CX graphing calculators" and the third is titled "Tips for TI-84 Plus CE graphing calculators". Both the second and third cards feature a "tips & tricks for TEST SUCCESS" banner with a play button icon.

TEXAS INSTRUMENTS Education Technology

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Exam Resources

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Prepare your calculator for the test

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[Learn more »](#)

Tips for TI-Nspire™ CX graphing calculators

Watch fun videos and download the [best practices guide](#) to discover great ways to save time and avoid mistakes.

[Watch the videos »](#)

Tips for TI-84 Plus CE graphing calculators

Learn how to save time and avoid mistakes using the great ways described in these fun videos and [best practices guide](#).

[Watch the videos »](#)



Exam Preparation Resources:

Standardized Tests: Best Practices for the TI-Nspire CX
Standardized Tests: Best Practices for the TI-84 Plus CE

The screenshot shows the Texas Instruments Education Technology website. The navigation bar includes links for Products, Downloads, Activities, Professional Development, Resources, Customer Support, Where to Buy, About Us, and Site US and Canada. A search bar and a "Sign Up for TI Emails" link are also present. The main content area is titled "Exam Resources" and features three columns of resources. The first column shows two TI-Nspire CX calculators and a link to "Prepare your calculators for the test". The second and third columns feature "tips & tricks for TEST SUCCESS" banners for TI-Nspire CX and TI-84 Plus CE calculators, respectively, with links to watch videos and download guides. Two red circles highlight the "tips & tricks for TEST SUCCESS" banners for the TI-Nspire CX and TI-84 Plus CE calculators.

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tips & tricks for TEST SUCCESS

Tips for TI-Nspire™ CX graphing calculators

Watch fun videos and download the best practices guide to discover great ways to save time and avoid mistakes.

[Watch the videos »](#)

tips & tricks for TEST SUCCESS

Tips for TI-84 Plus CE graphing calculators

Learn how to save time and avoid mistakes using the great ways described in these fun videos and best practices guide.

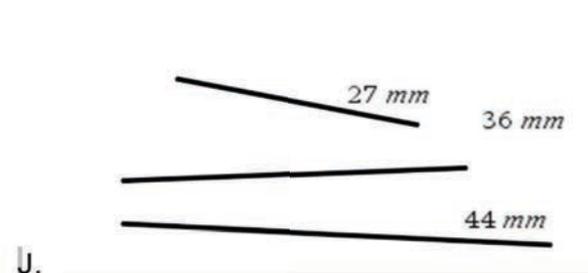
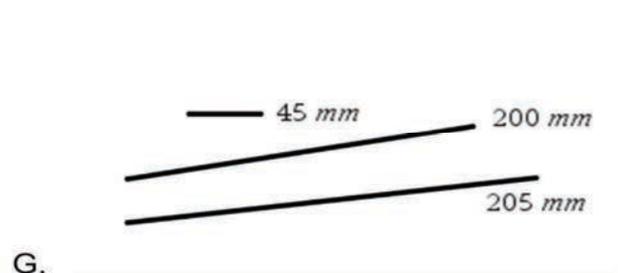
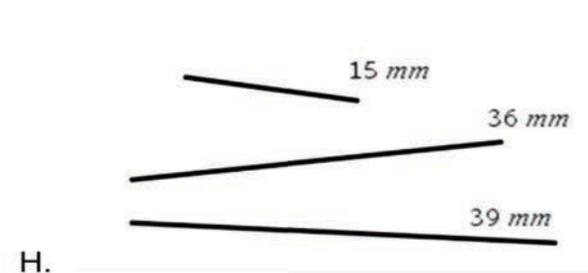
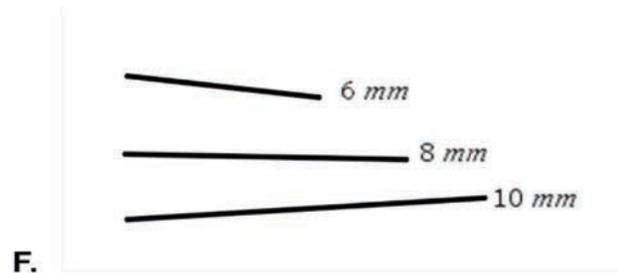
[Watch the videos »](#)



Test Strategy:
Compare, Compare, Compare!
Testing for Equivalence: TI-84+CE

Question

Which set of segments below could not be used to form a right triangle?

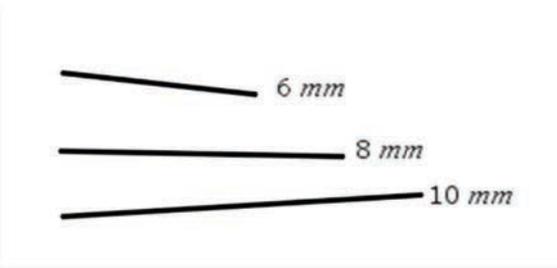


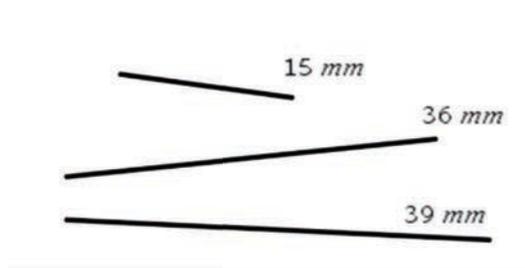
Test Strategy: Compare, Compare, Compare!

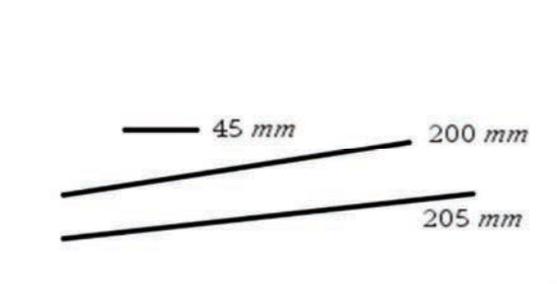
Testing for Equivalence: TI-Nspire CX

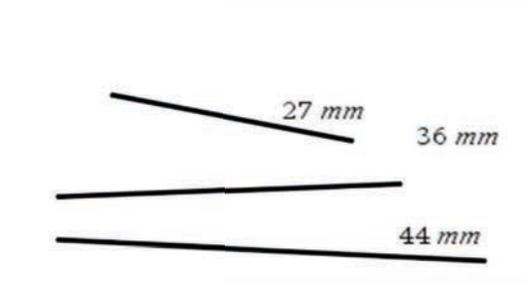
Question

Which set of segments below could not be used to form a right triangle?

F.  Three line segments are shown. The top segment is labeled 6 mm, the middle segment is labeled 8 mm, and the bottom segment is labeled 10 mm.

H.  Three line segments are shown. The top segment is labeled 15 mm, the middle segment is labeled 36 mm, and the bottom segment is labeled 39 mm.

G.  Three line segments are shown. The top segment is labeled 45 mm, the middle segment is labeled 200 mm, and the bottom segment is labeled 205 mm.

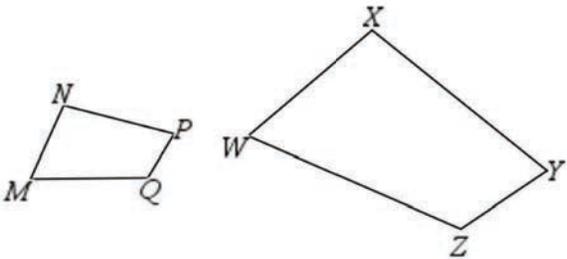
J.  Three line segments are shown. The top segment is labeled 27 mm, the middle segment is labeled 36 mm, and the bottom segment is labeled 44 mm.

Compare, Compare, Compare!

TI 84+ CE

1. Label sides and answer choices
2. Choose and store values
3. Create proportions
4. Test for equivalence

Question



Quadrilateral $MNPQ$ has been dilated by a scale factor of 2 to form quadrilateral $WXYZ$. Which of the following proportions is not true?

A. $\frac{MN}{WX} = \frac{PQ}{YZ}$

B. $\frac{MQ}{XY} = \frac{NP}{WZ}$

C. $\frac{NP}{XY} = \frac{PQ}{YZ}$

D. $\frac{MQ}{WZ} = \frac{MN}{WX}$

Compare, Compare, Compare!

TI 84+ CE

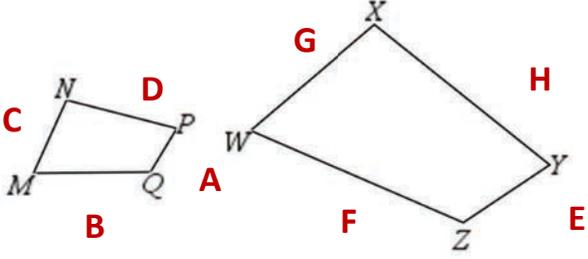
1. Label sides and
answer choices

2. Choose and store
values

3. Enter proportions

4. Test for equivalence

Question



Quadrilateral $MNPQ$ has been dilated by a scale factor of 2 to form quadrilateral $WXYZ$. Which of the following proportions is not true?

A. $\frac{MN}{WX} = \frac{PQ}{YZ}$ $\frac{C}{G} = \frac{A}{E}$

B. $\frac{MQ}{XY} = \frac{NP}{WZ}$ $\frac{B}{H} = \frac{D}{F}$

C. $\frac{NP}{XY} = \frac{PQ}{YZ}$ $\frac{D}{H} = \frac{A}{E}$

D. $\frac{MQ}{WZ} = \frac{MN}{WX}$ $\frac{B}{F} = \frac{C}{G}$

Compare, Compare, Compare!

TI 84+ CE

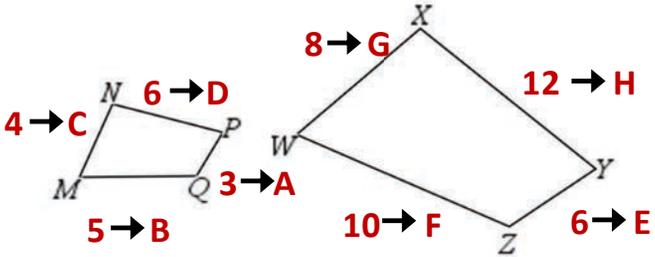
1. Label sides and answer choices

2. Choose and store values 

3. Enter proportions

4. Test for equivalence

Question



Quadrilateral $MNPQ$ has been dilated by a scale factor of 2 to form quadrilateral $WXYZ$. Which of the following proportions is not true?

A. $\frac{MN}{WX} = \frac{PQ}{YZ}$ $\frac{C}{G} = \frac{A}{E}$

B. $\frac{MQ}{XY} = \frac{NP}{WZ}$ $\frac{B}{H} = \frac{D}{F}$

C. $\frac{NP}{XY} = \frac{PQ}{YZ}$ $\frac{D}{H} = \frac{A}{E}$

D. $\frac{MQ}{WZ} = \frac{MN}{WX}$ $\frac{B}{F} = \frac{C}{G}$

Compare, Compare, Compare!

TI Nspire CX

1. Choose and store
values (TI-Nspire secondary
function for `var`)

2. Enter proportions

3. Test for equivalence

Question

Quadrilateral $MNPQ$ has been dilated by a scale factor of 2 to form quadrilateral $WXYZ$. Which of the following proportions is not true?

A. $\frac{MN}{WX} = \frac{PQ}{YZ}$

B. $\frac{MQ}{XY} = \frac{NP}{WZ}$

C. $\frac{NP}{XY} = \frac{PQ}{YZ}$

D. $\frac{MQ}{WZ} = \frac{MN}{WX}$

Test Strategy: Adjustable Lines for Prediction

TI 84+ CE

Teaching Strategy:

Manual-Fit

After graphing data:

Stat → Calc → Manual-Fit

Question

The table shows the cost, c , of a number of lunch specials, l , purchased by office staff.

Cost of Lunch

Number of lunches, l	Cost, c
0	0
2	10.72
5	26.80
11	58.96
19	101.84

Based on the data in the table, what will be the total cost of lunches for an office of 236 people?

- A \$936.26
- B \$1,259.60
- C \$1,264.96
- D \$1,342.76

Test Strategy: Adjustable Lines for Prediction

TI Nspire CX

Teaching Strategy:

Moveable Line

In Data and Statistics

After graphing data:

Menu → Analyze →

Add Moveable Line

Question

The table shows the cost, c , of a number of lunch specials, l , purchased by office staff.

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*C \$1,264.96

D \$1,342.76

TI 84 Central Activity: You Are What You Eat

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84 Activity Central

Middle Grades Math

- Ratios and Proportional Relationships
- The Number System
- Expressions and Equations
- Functions**
- Geometry
- Statistics and Probability

Algebra I

Geometry

Algebra II

Precalculus

Statistics

Calculus

Science

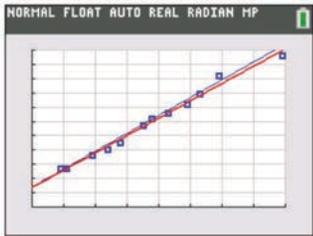
Standards Search

Middle Grades Math: You Are What You Eat

by Texas Instruments

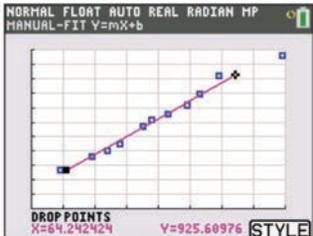
Overview

Students are introduced to modeling linear data through an investigation of comparing grams of fat and calories in fast food hamburgers.



Key Steps

Students set up and equation to relate *calories* vs. *grams of fat* by plotting the data as a scatter plot, then find the line of best fit.



Download

- Teacher Files**
 - Teacher Notes PDF
- Student Files**
 - Student Activity DOC
 - Student Activity PDF
- Alignment**
 - Standards Alignment
 - Textbook Alignment
- Device**
 - TI-84 Plus
 - TI-84 Plus Silver Edition
 - TI-84 Plus C Silver Edition
 - TI-84 Plus CE
- Software**
 - TI Connect™
- Report an Issue**



TI Math Nspired Activity: Pythagorean Relationships

Pythagorean Relationships

Activity Overview

Investigate the triangles that can be formed using one side of three squares to build the triangle.

Objectives

- Students will determine that a right triangle exists when the sum of the areas of the squares built on the short sides is equal to the area of the square built on the longest side.

$a = 3u$
 $b = 5u$
 $c = 6u$

$9u^2$ $25u^2$ $36u^2$

Reset

In this activity, students will determine that a right triangle exists when the sum of the areas of the squares built on the short sides is equal to the area of the square built on the longest side.



Texas 8th Grade Math and Algebra 1 EOC Exam Strategies Workshops

Texas 8th Grade Math EOC Exam Strategies with the TI-84 Plus CE Graphing Calculator

Texas 8th Grade Math EOC Exam Strategies with TI-Nspire™ Technology

Texas Algebra 1 EOC Exam Strategies with the TI-84 Plus CE Graphing Calculator

Texas Algebra 1 EOC Exam Strategies with TI-Nspire™ Technology

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TX ESC's 4, 11-13, 15, and 18-20



Robb Wilson

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TX ESC's 1-3, 5, 6, 7-10, 14, 16, and 17