

Algebra 1

Objective: Students will be able to answer all nine types of FSA (Florida State Assessment) Technology-Enhanced Item Types (TEIs) by completing an activity in their group.

Overview:

Students take an EOC (End of Course Exam) at the end of their Algebra 1 year. The following activity will teach the students about the different types of questions that they will see on their FSA EOC. Students will also learn about safety on the road as well as the trucking industry.

Hook: Have students use a driving distracted simulator. Students may use the simulator in groups or as a whole class. This is a great opportunity to talk about the trucking industry and inspire students to research the industry. ***Contact the Florida Trucking Association at (850) 222-9900 for free resources!*

Teachers may use different resources, but here are a few:

<http://www.automotive-fleet.com/channel/safety-accident-management/article/story/2011/08/6-mobile-applications-to-prevent-distracted-driving-accidents.aspx>

Guided Practice: Students will discuss in their groups about what they think is distracting these drivers, and about what they can do as teenagers to help lower the percentage of accidents involving distracted drivers.

Independent Practice: Students will work individually on the activity below. This activity will have them work through the different types of questions that will be found on their Florida State Assessment, as well as find out more information about safety and the trucking industry.

Conclusion: Students will share out answers and discuss how they answered each type of TEI.

References:

Graph1: <http://wredlich.com/ny/wp-content/uploads/2012/09/Picture-12.png>

Graph 2: <http://www.road scholar.com/wp-content/uploads/2015/10/ATAMar2015.png>

FSA Technology Enhanced Items: <http://fsassessments.org/wp-content/uploads/2015/03/Algebra-1-Test-Item-Specifications.pdf>

AAA picture: <https://pictures.dealer.com/a/adventuresubarusoa/1123/fc7b3c5bbf84a752a030dbe71abeacacx.jpg>

1. Multiple Choice

A 53 foot semi can weigh up to 80,000 pounds, while a car weighs an average of 3,500 pounds. How many times more does the semi weigh than the car?

- a) 40 times more
- b) 10 times more
- c) 5 times more
- d) 23 times more

2. Multi-select

Which of the following items can be dangerous to a driver?

- Texting while driving
- Both hands on the wheel
- Changing the radio while driving
- Talking on the phone while driving
- Using mirrors to move over into the right lane

3. Drag and Drop

Positive correlation

Negative correlation

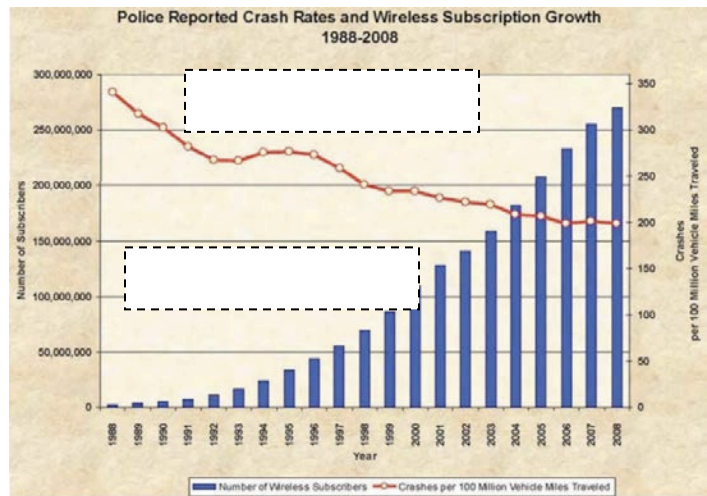


Figure 1. Cell phone trends and crash rates. Data from Tijerina (2011).



4. Matching

There are three different levels of inspections State Troopers perform on trucks. Match the following

Level 1

Inspect the driver's paperwork and inspect the truck

Level 2

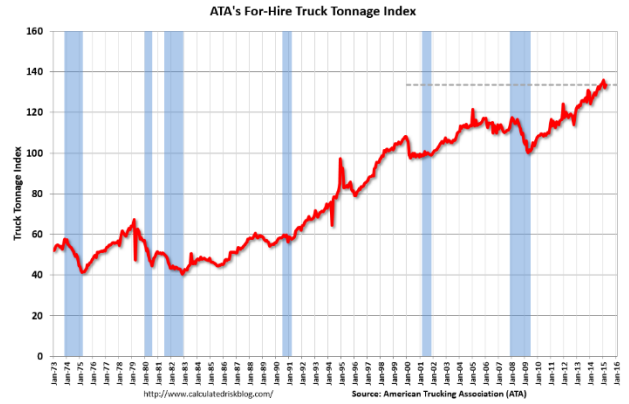
Inspect the driver's paperwork

Level 3

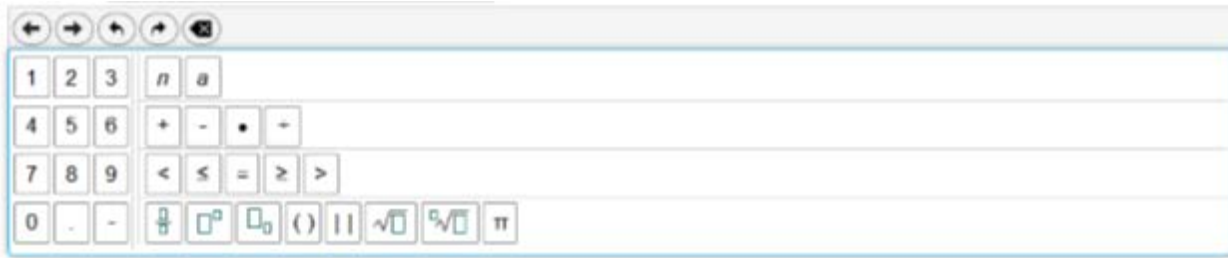
Inspect the outside of the truck

5. Equation Editor

Write the slope for a line of best fit.



y=



6. Open Response

If 21 teens were interviewed after being in an accident. How many of those accidents were caused by using a phone?

Type your answer in the space provided.



7. Table Item

The statistic for accidents involving a distracted driver by a phone has recently doubled the accidents of those driving while intoxicated. Use this information to complete the table.

Drunk Drivers (x)	Distracted by Phone Drivers (y)
1	<input type="text"/>
<input type="text"/>	100
65	<input type="text"/>

