# Objectives/Learning Target for Week Sept 25-Oct. 4

Anchor Descriptor - A1.2.1.2 Interpret and/or use linear functions and their equations, graphs or tables.

Eligible Content - A1.2.1.2.1 Create, interpret and/or use the equation, graph or table of a linear function.

## MODULE 2—Linear Functions and Data Organizations

**ASSESSMENT ANCHOR**

**A1.2.2 Coordinate Geometry**

| Anchor Descriptor | | Eligible Content | | PA Core Standards |
|---|---|---|---|---|
| A1.2.2.2 | Analyze and/or interpret data on a scatter plot. | A1.2.2.2.1 | Draw, identify, find, and/or write an equation for a line of best fit for a scatter plot. | CC.2.2.HS.C.6 CC.2.4.8.B.1 CC.2.4.HS.B.2 CC.2.4.HS.B.3 |

Section 4.4

**Common Core State Standards:** S.ID.B.6a, S.ID.B.6c, S.ID.C.7, F.LE.B.5
**Learning Target:** Use scatter plots and lines of fit to describe relationships between data.
**Success Criteria**
- Read and interpret scatter plots.
- Identify correlations between data.
- Write and interpret an equation of a line of fit.

**Vocabulary:** scatter plot, correlation, line of fit

# Week Sept 30-Oct 4 Lesson Overview --ALGEBRA 1B

**Monday** - Use the Dynamic Classroom for Practice on interpreting slope, intercepts, and other items off the scatterplots **by completing the SELF ASSESSMENTS # 1-5, 6-8. 9 online**

**Tuesday** - Use the Dynamic Classroom for Practice on interpreting slope, intercepts, and other items off the scatterplots **by completing the Practice #1-11 online   Help students by starting them on #7 with graphing points in DESMOS online problem.**

**Wednesday** - Review for the TEST using pg. 67 Black Practice book, handout, and notes from online problems.  Also **use pg 68 Black Practice Book on Review and Refresh**.

**Thursday** - TEST on Scatterplots CHAPTER 4.SECTION 4 with review on parallel and perpendicular lines.

**Friday** -   Work on a Studyisland Group Worksheet in groups of 3 assigned by Mrs.

# Monday Sept 30

**EXAMPLE 1**   Interpreting a Scatter Plot ⊞
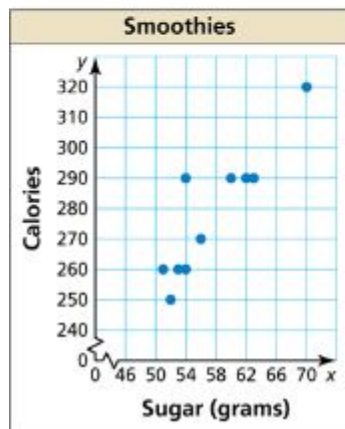
⊞⊟ Example     ⊞⊟ Stepped Out     ▷ Video     ☑ See another example

**Smoothies**

The scatter plot shows the amounts x (in grams) of sugar and the numbers y of calories in 10 smoothies.

**a.** How many calories are in the smoothie that contains 56 grams of sugar?

**b.** How many grams of sugar are in the smoothie that contains 320 calories?

**c.** What tends to happen to the number of calories as the number of grams of sugar increases?
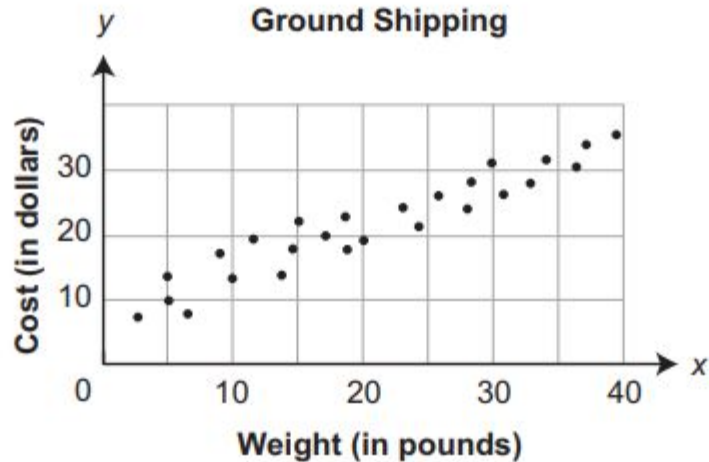
# SAS

Keystone

Sampler

2014

**Standard** A1.2.2.2.1

The scatter plot below shows the cost ($y$) of ground shipping packages from Harrisburg, Pennsylvania, to Minneapolis, Minnesota, based on the package weight ($x$).



**Ground Shipping**

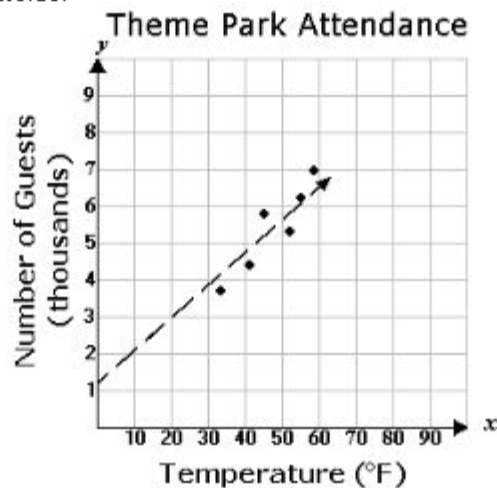Which equation **best** describes the line of best fit?

A. $y = 0.37x + 1.57$

B. $y = 0.37x + 10.11$

C. $y = 0.68x + 2.32$

D. $y = 0.68x + 6.61$

# Friday

Sample Studyisland.com

## Question 6.

A small theme park is trying to determine the number of guests they should expect on a weekend, based on the temperature outside.



Theme Park Attendance

Based on the trend line, about how many guests should be expected if the temperature is around 70°?

○ A.  6,500

○ B.  8,700

○ C.  7,500

○ D.  7