

# Carnegie Learning

## Integrated Math Curriculum

SY 2014-2015





# Carnegie Learning Teacher Resources

## **KEY IDEAS:**

**Carnegie Learning provides teachers with a variety of resources to draw from in guiding student instruction**

## **ASSESSMENT RESOURCES:**

- Pre-Test
- Post-Test
- Mid-Chapter Assessment (Quiz)
- End of Chapter Assessment
- Standardized Test Practice (Multiple Choice)
- Test Generator Software
- Aligned to Integrated Math CCSS-M Standards.



# Sample Assessments

Integrated Math 3  
Chapter 1 Test Retake vB  
100 points

Name \_\_\_\_\_  
Date \_\_\_\_\_  
Period \_\_\_\_\_

Directions: Read each question carefully. Write full sentences when told to explain. Good luck and may the math be with you!!! (Each problem of the test is worth 10 points.)

## **Formulas Needed for Confidence Intervals**

$$\text{Standard Deviation for Population or Sample Proportion} = \sqrt{\frac{\rho(1-\rho)}{n}}$$

$$\text{Standard Deviation for Population or Sample Mean} = \frac{s}{\sqrt{n}}$$

Assume Margin of Error for confidence intervals is  $\pm 2\sigma$

1.

Classify each situation as a sample survey, an observational study, or an experiment. Then identify the population, the sample, and the characteristic of interest.

A nationwide survey of 1500 students showed that about 60% of 18- to 21-year-old college students take at least one science lab class.



# Sample Assessments

Integrated Math 3

Chapter 2 Test

100 points

Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

Directions: Read each question carefully. Write full sentences when told to explain. Good luck and may the math be with you!!! (Each part of the test is worth 5 points.)

## Formulas Needed for Confidence Intervals

$$\text{Standard Deviation for Population or Sample Proportion} = \sqrt{\frac{p(1-p)}{n}}$$

$$\text{Standard Deviation for Population or Sample Mean} = \frac{s}{\sqrt{n}}$$

Assume Margin of Error for confidence intervals is  $\pm 2\sigma$

Classify each situation as a sample survey, an observational study, or an experiment. Then identify the population, the sample, and the characteristic of interest.

1. Research funded by an independent think tank found that only one-third of public high school students have daily gym classes. The study examined 168 high school programs in 3 southern states.



# Review Resources

## KEY IDEAS:

**Carnegie Learning provides teachers with ample opportunities to spiral the content**

## REVIEW RESOURCES:

- Daily Lesson Warm-up
- Daily Lesson Check for Understanding
- Skills Practice for each lesson
- Student Assignments for each lesson
- See it Try it interactives in Integrated 1 (students have access to all three levels using their login).



# Sample Review Resources

## Integrated Math 3

### 2.1-2.3 Review

Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

A# \_\_\_\_\_

### Vocabulary

Match each definition to its corresponding term.

- |   |                               |
|---|-------------------------------|
| 1. a study that gathers data about a characteristic of the population by simply observing and describing events in their natural settings     | a. biased sample              |
| 2. a survey that poses one or more questions of interest to a sample of a targeted population   | b. sample survey              |
| 3. members of the sample for an experiment  | c. random sample              |
| 4. the specific question that you are trying to answer or the specific information you are trying to gather                                   | d. characteristic of interest |
| 5. a situation that occurs when there are other possible reasons for the results to have occurred that were not identified prior to the study | e. confounding                |
| 6. a sample that is not representative of the population  | f. observational study        |
| 7. an experimental condition used on treatment groups   | g. experiment                 |
| 8. a process that gathers data on the effect of one or more treatments on the characteristic of interest                                      | h. treatment                  |
| 9. a sample that is selected from the population in such a way that every member of the population has the same chance of being selected      | i. experimental unit          |

### Problem Set

Determine whether each description represents a 68%, 95%, or 99.7% confidence interval. Explain your reasoning.

1. The confidence interval for a population proportion is  $45\% \pm 3\%$  and the standard deviation of the sampling distribution is 0.015.



# Student Remediation Software

## **KEY IDEAS:**

**Student support software, Cognitive Tutor, can be prescriptive or diagnostic.**

## Cognitive Tutor Features:

- Content based on both previous courses (RTI) or current course (Integrated Math)
- Software has positive reinforcement features (badges, unlock content, positive messages, etc.)



# Cognitive Tutor

Carnegie Learning Online



[HOME](#) • [SUPPORT](#) • [CONTACT US](#)

Test your computer using our [System Requirements Tool](#).

**CARMEL HS-93922**  
Student

Test Class

**COGNITIVE TUTOR® PRIME**  
Software



**COGNITIVE TUTOR® LITE**  
Software



**REVIEW MODE**



**RETURN TO THE LOGIN PAGE**





# Cognitive Tutor



TEACHER'S TOOLKIT

▶ Home

▶ Classes

▶ Students

▶ Reports

▼ Content

• Overview •

Create Module

▶ Communications

▶ Instructors

## Overview

- ▶ Integrated Math 1 Common Core
- ▶ Integrated Math 2 Common Core
- ▶ Integrated Math 3 Common Core
- ▶ RTI for Integrated Math 1 CCSS
- ▶ RTI for Integrated Math II CCSS
- ▶ RTI for Integrated Math III CCSS



# Cognitive Tutor

Carnegie Learning | Test Class

GLOSSARY

HELP

Hi, David Hilbert

LOG OUT

HOME

MESSAGES

CALENDAR

BADGES

MATH WONDERS

PROFILES

## Table of Contents

+ RTI for Integrated Math I CCSS

0/90

START ▶ Fraction Addition and Subtraction

ON SECTION: 1 of 5

Content

## Today's Message

### Happy Discovery of Neptune Day!

The discovery of the planet Neptune was based on mathematical logic. Astronomers watching planet Uranus's orbit realized there must be something with a lot of gravity pulling it off to the side. So they searched with their telescopes, and on September 23rd, 1846, they found Neptune!

## Calendar

## Latest Badges

Badges



Paul Revere



Curator



# Teacher Support

- Before the implementation, teachers completed a 2-day workshop on how to set up, access, and manage Carnegie Learning
- Available Online Professional Development
- Ongoing collaboration time to discuss pacing, assessments, student outcomes



# CHS Common Grading Method

## KEY IDEA:

- Teacher PD on common grading method
- Used on Math Assessment Collaborative (MAC) test last spring
- Continuing use in Carnegie Learning



Questions?

Thank you!