

**To the Student:**

After your registration is complete and your proctor has been approved, you may take the Credit by Examination for MATH 7A.

WHAT TO BRING

- No. 2 pencil
- straightedge ruler
- protractor
- notebook paper

ABOUT THE EXAM

The examination is based on the Essential Knowledge and Skills for this subject. Since questions are not taken from any one source, you can prepare by reviewing any of the state-adopted textbooks that are used at your school. You must review all of the concepts of mathematics for the 7th grade level. If you do not have a textbook or any other study material available locally, you may contact the Outreach & Distance Education Bookstore. The bookstore carries the textbook used with our MATH 7A Distance Education course. The textbook is *Mathematics: Exploring Your World* by Silver Burdett & Ginn, Inc. (1991).

The exam consists of 50 questions. Each question will count two points.

There is also a sample examination included with this letter. The sample exam will give you a model of the types of questions that will be asked on your examination. It is not a duplicate of the actual examination. It is provided to illustrate the format of the exam, not to serve as a review sheet.

For more information about CBE policies, visit <http://www.ode.ttu.edu/takeacbe/> or see your course Policies & Forms Guide.

Good luck on your examination!

This Credit by Examination for Mathematics 7A provides the opportunity for you to demonstrate mastery of the Texas Essential Knowledge and Skills (TEKS) as outlined by the Texas Education Agency. The examination tests your ability to:

- estimate sums, differences, products, and quotients;
- add, subtract, multiply, and divide whole numbers, fractions, and decimals;
- order, compare, and relate fractions, decimals, and whole numbers;
- use order of operations, evaluate expressions, and solve one-step equations;
- use exponents, powers of ten, and scientific notation;
- use rules of divisibility and prime factorization to find LCM and GCF;
- analyze lines, angles, polygons, and transformations; and
- use problem-solving techniques.

A short review is provided below to illustrate the format of the exam.

Review for the Credit by Examination for Math 7A

1. Find the LCM of 4 and 18.
2. Matt studied for $1\frac{1}{2}$ hours. Sarah studied for $1\frac{1}{4}$ hours. How much longer did Matt study?
3. Solve for x : $x + 5.1 = 8.5$
4. List the numbers from greatest to least: 0.067; 0.076; 0.0076; 0.706
5. List all the factors of 45.

Answers:

1. 4: 4, 8, 12, 16, 20, 24, 28, 32, and 36

18: 18 and 36

The LCM is 36.

2. $1\frac{1}{2} = 1\frac{2}{4}$, so $1\frac{2}{4} - 1\frac{1}{4} = \frac{1}{4}$ hr

3. $x + 5.1 = 8.5$

$$x + 5.1 - 5.1 = 8.5 - 5.1$$

$$x = 3.4$$

4. 0.706; 0.076; 0.067; 0.0076

5. $45 = \{1, 3, 5, 9, 15, 45\}$