

**To the Student:**

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

WHAT TO BRING

- several No. 2 pencils
- notebook paper
- graph paper
- compass
- protractor
- scientific calculator

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 7B 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 7B 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:

- find measures of central tendency and plot and graph data;
- write ratios, rates, and proportions;
- relate ratios, decimals, and percents;
- use percents in math problems and real-life applications;
- find area, circumference, and volume of figures;
- compare and use operations with integers and graph ordered pairs;
- solve equations and inequalities with integers; and
- find probabilities of events, count occurrences, and find permutations.

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

Review of the Credit by Examination:

1. Find the mean, mode, median, and range of the data. 5, 12, 23, 14, 9, 17, 4, 6, 15, 11, 12, 4
2. What is 55% of 26?
3. Solve the inequality. $x + 7 \geq -3$.
4. Find the area of a square with sides 11 mm.
5. Write 45% as a fraction.
6. $\sqrt{9} = \underline{\hspace{2cm}}$.
7. Find the amount of sales tax paid on a \$78 item with 5% sales tax.
8. $\frac{-49}{-7} = \underline{\hspace{2cm}}$.
9. Find the circumference of the circle whose diameter is 18 cm.
10. A bag contains 4 green marbles, 3 red marbles and 1 black marble. What is P(red)?

Answers:

1. mean = 11 , mode = 4 and 12, median = 11.5, range = 19

2. 14.3

3. $x + 7 \geq -3$

$$x + 7 - 7 \geq -3 - 7$$

$$x \geq -10$$

4. $A = s^2$

$$A = 11^2$$

$$A = 121\text{mm}^2$$

5. $\frac{9}{20}$

6. 3

7. \$3.90

8. 7

9. $C = \pi d$

$$C = 3.14(18)$$

$$C = 56.52\text{cm}$$

10. $\frac{3}{8}$