

PRE-ALGEBRA

Study Guide for the Month 6 Test

Ch. 7 (Sections 1-7) AND Ch. 8 (Sections 1-3) AND Review

This study guide identifies **examples and similar problems** that will help students be ready to correctly complete the problems on the monthly test. Use this information to master the things identified. **Mastery involves two main things:** both completely understanding every part of a problem and actually getting the right answer. Parents, please follow these basic steps to help your child master these math concepts and procedures:

1. Make sure your child **understands exactly what to do at every step** in every type of problem,
2. Then **memorizes** those steps,
3. Then **practices, practices, and practices more**, until the student can get them right every time. Do as many as possible from the textbook of every type of problem listed below.

DO NOT turn in to the teacher any work that is done based on this study guide. This page is for parents and students' information to help prepare for the test, and is not part of the required work for the month.

| Chapter 6, Sections 1-10 | | |
|--|---------|--|
| Test Qn. | Section | Info, Examples, Exercises for Focus and Practice |
| 1 | 7-1 | Ex. 1; 6-14, 16-21 (p. 346) |
| 2 | 7-1 | Ex. 2; 6-14, 16-21 (p. 346). Negative coefficient. |
| 3 | 7-1 | Ex. 3; 15, 22, 26, 27, 34 (p. 346-7) |
| 4 | 7-2 | Exs. 1 & 3; 6-8, 12-21 (p. 351). Esp. nr. 15. |
| 5 | 7-2 | Exs. 1 & 3; 6-8, 12-21 (p. 351). Esp. nr. 21. |
| 6 | 7-2 | Ex. 2; 10-11, 22-23, 33-34 (p. 351-2). Know how to handle consecutive, also consecutive even, or odd. |
| 7 | 7-3 | Exs. 1 & 2; 13-16, 21-32 (p. 298). Use LCM! |
| 8 | 7-3 | Exs. 1 & 2; 13-16, 21-32 (p. 298). Use LCM! |
| 9 | 7-3 | Ex. 3; 18-23, 27, 30-31, 34, 36 (p. 356). |
| 10 | 7-4 | Practice changing from words to equations, and then solving. Test qn. 10 will be most like example (p 303-4). Practice all word problems, for mastery. |
| 11 | 7-4 | Test qn. 11 will be most like one of the odd problems on 360-361. Practice them all to master the concept (changing from words to equations) and computational procedures. |
| 12 | 7-5 | Exs. 1 & 2; 5-18, 21-26 (p. 365). Remember to reverse the inequality sign if mult. or div. by a negative nr. |
| 13 | 7-5 | Exs. 1 & 2; 5-18, 21-26 (p. 365). Will have to graph on a number line also. Remember to reverse the inequality sign if mult. or div. by a negative nr. |
| 14 | 7-6 | Exs. 1 & 2; 3-8, 11-13, 17 (p. 369-370). |
| 15 | 7-6 | Exs. 1 & 2; 3-8, 11-13, 17 (p. 369-370). |
| 16 | 7-6 | Example 3. (p. 368). Parents, since there are no practice problems similar to example 3, make up some for your child to practice. The test qn. will be a $d=rt$ problem. |
| End of Part 1 / Start of Part 2 | | |
| 17 | 7-7 | Ex. 1; 6-7, 14-15 (p. 318). Memorize $I = prt$. |
| 18 | 7-7 | Ex. 2; 8-9 (p. 374). • Will fill in a chart like in example 2. • DO NOT memorize the compound-interest formula. |
| 19 | 8-1 | Concept from example 1. Students will have to list the domain (x-values), and list the range (y-values), and state if it is a function or not. |

| Test Qn. | Section | Info, Examples, Exercises for Focus and Practice |
|---|---------|---|
| 20 | 8-1 | Concept from example 2 and from the information on p. 388. Students will have to write an explanation (1 to 3 sentences) of what a function is. |
| 21 | 8-1 | Ex. 3; 17-20 (p. 391). Remember, do NOT connect points unless it is an equation. X Y tables are not automatically equations. Pay close attention to example 3. |
| 22 | 8-2 | Ex. 1; 6-11 (p. 396). |
| 23 | 8-2 | Example 3. Students will not have to graph, just substitute (like "Check" at the end of example 3 on p. 394). |
| 24 | 8-2 | Exs. 4 & 5; 14-22, 24-26 (p. 396). Must 1) solve for y, 2) make x y chart, 3) graph the line. |
| 25 | 8-2 | Exs. 4 & 5; 14-22, 24-26 (p. 396). Must 1) solve for y, 2) make x y chart, 3) graph the line. |
| 26 | 8-3 | Ex. 1; 4-5, 23-24 (p. 402-3). |
| 27 | 8-3 | Ex. 2; 6-8, 27-30 (p. 402-3). MUST use slope formula. |
| 28 | 8-3 | Ex. 4; 12-20 (p. 402). Just identify slope & y-intercept. |
| 29 | 8-3 | Ex. 4; 12-20 (p. 402). Use slope & y-intercept to graph. |
| 30 | 8-3 | Ex. 4; 12-20 (p. 402). Use slope & y-intercept to graph. |
| Review from Past Months | | |
| 31 | 4-3 | Ex. 3; 29-32 (p. 185). Follow Jasmine's method, NOT Daryl's (page 184). For GCF (GCD) of variables, use the smallest amount of each variable that's in both terms. |
| 32 | 5-1 | Ex. 3; 12-13, 37-42 (p. 229). I do not recommend the prime factorization method. Look at the handout at http://tinyurl.com/1011GCFLCM . Also, for LCM of variables, use the largest amount of each variable. |
| Important Information: | | |
| • Part 1: Questions 1 – 16 (16 questions) | | |
| • Part 2: Questions 17 – 32 (16 questions) | | |
| • Complete half of the test (<i>either half</i>) on Feb. 22-24, and the other half on Monday, Feb. 27 at 1:00. Go to http://www.sandi.net/Page/26573 for testing details. | | |
| Revised 02/13/12 | | |