Using The Quick Notes Learning System

Our Student Internet Library has free material for students, teachers, and parents.

Step # 1 The Pretest

Begin with a 49-question pretest. This pretest covers material required by many states to show an understanding of high school mathematics.

Complete solutions to the pretest have been provided in Appendix 2. They may be used to score the pretest and see how to do questions answered incorrectly.

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Step # 2 Using Learning Units

Need help? Quick Notes has 49 easy to follow learning units. Pretest questions are numbered to match learning unit numbers. If your answer to pretest question 5 to simplify $24 + (6 - 3)(4) - 5^2$ was incorrect, study Learning Unit 5 on The Order of Operations.

Quick's one-page learning units explain math concepts with an easy to follow outline. By limiting learning units to one page, Quick Notes makes learning difficult concepts easier.

-compat ¹² 10	Pretes	t			
 Which number is six thousan A) 6,290 B) 6,209 C) 6,909 D) 6,299 	d two hundred nine? Answer	2) Round 5,345 to the nearest hundred			
3A) 36 + 472 + 8 =	3B) 502 - 58 =	4A) (206)(35) =			
4B) 56)61,096	5) Simplify 24 + (6	- 3)(4) - 5 ²			
	6) Which of the follo	owing is not a prime	Answer		
	7) Which of the follo A) $\frac{3}{5}$ B) $\frac{4}{5}$ ((c) $\frac{12}{16}$ D) $\frac{13}{16}$? Answer		

Unit 5 The Order of Operations

- 1. Mathematical expressions may involve one or more operations.
 - A. Six important math operations are addition, subtraction, multiplication, division, exponents, and roots.
 - B. These are math expressions with one operation.



C. Order of operations is important when a math expression has more than one operation. When given a choice of two math operations to perform, the higher order operation is done first. Equal order operations are done left to right.

The Order of Operations						
1st	Operations within parenthesis	3rd	Multiplication and division (middle order)			
2nd	Exponents and roots (highest order)	4th	Addition and subtraction (lowest order)			

2. Solving mathematical expressions



Each learning unit is followed by practice problems . Space has		Unit 5	Practice Problems				
been provided to determine their	Simplify the following expressions.						
solutions. Learning units and practice problems are on facing pages. Students need only look to their left for help with difficult problems.	1) 8 + 3 - 4	3) 8 - (6 - 4) + 2	5) 24 ÷ (6 – 2)4 ²	6) (9-5) + 16 ÷ 4			
	2) 12 - (6 - 4)	4) 16 ÷ 4×2	unit in diggenun 1997 - Be blurts scholars	ene despirations data abaiologia de Pala d la casitano data contra			
core the practice problems using nswers provided in Appendix 4.							
	Unit 5 answers are on page 237. Unit 5 additional practice problems are on page 160.						
Education Improvement Internet Library has free material for teachers, administrators, and parents.	Students not doing well (more than a few wrong) should review the learning unit and then do the additional practice problems located in Appendix 1. Students doing well should save these additional problems for possible use at a later time.						

Step # 3

Reviewing Key Concepts

Learning units covering similar material have been grouped into 7 parts. Each part ends with a review of key concepts and a quiz (except for part 6, which does not have a review).

			Part 1	Rev	iew of Who	le Nun	nbers			
Place value names		Hundreds	Tens	Units	Hundreds	Tens	Units	Hundreds	Tens	Units
5 614 e	o actos rice	Millions			Thousands			Ones		
Writing numbers	The number four million two hundred sixty-five thousand four hundred one is written as follows: 4,265,401									
Writing whole numbers with words	Rules for writing whole numbers:The number 83,206,812 would be written as follows:1. Do not use the word "and"eighty-three million two hundred six thousand eight hundred twelve									
Symbols used to compare numbers		Relationship is greater than is less than is equal to is not equal to is approximately equal			Symbol > = ≠ !to ≈	1	Example 8 > 6 6 < 8 7 = 4 + + 6 ≠ 8 90 ≈ 88	3		
Rounding	 Determ Round Do not Replace 	etermine the number of places desired in the answer. Sound up if the digit to the right is greater than or equal to 5. To not round up if the digit to the right is less than 5. Replace the remaining digits with zeros.					Rounding 4 Rounding 7	78 to the near 480 ≈ 7,648 to the ne 7,600 ≈	rest ten giv 478 arest hund 7,648	es 480. red gives 7,600.

Step # 4 Measuring Progress with a Quiz

Score the quiz and learn how to do problems answered incorrectly using the quiz solutions provided in Appendix 3. If not completed earlier, the additional practice problems related to this quiz may be done at this time or they may be saved for later use.

Step # 5 Tying Everything Together with a Cumulative Problem Review

Before going on to the next part of **Quick Notes**, make sure your skills are up to par with a **cumulative problem review**. Like the pretest, cumulative review problems are numbered to match the learning unit number that contains their explanation. If you miss question 5, see how to do it correctly by studying Learning Unit 5. Answers to cumulative review problems are provided in Appendix 4.

Step # 6 The Posttest

Taking the posttest is the final step of the Quick Notes Learning System. Use the posttest solutions provided in Appendix 2 to learn how to do problems answered incorrectly.

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Quiz 2 Fractions 1) Describe a fraction in the space provided.

2) Write a fraction describing one player on a ten-player basketball team.

Answer ____

 Write a fraction describing the five starting players on a ten-player basketball team.

4) Write each fraction as an equivalent fraction with the given denominator.

A) $\frac{1}{3} = \frac{1}{15}$

5) Write 8/2 as a whole number.

6) Write $\frac{17}{5}$ as a mixed number.

B) $\frac{3}{5} = \frac{100}{100}$

Parts 1 - 5 Cumulative Problem Review 1) Write the number four hundred 3) 8,154 4) 3.654/42 = thirty-five thousand. + 1,846 2) Round your problem 1 answer to the nearest ten thousand. 5) $2(3)^2 + 4(6-2) \div 2 = 6$ Which is a composite number? A) 5 B) 7 C) 9 D) 11 E) 13 Answer 7) Write your share of a pizza you are sharing with 3 friends.

Posttest							
Directions: Solve the following problems. Please note posttest problems are numbered to match learning unit numbers. Complete solutions are provided beginning on page 211.							
 Which number is fiftee sixty? 	2) Round 68,559 to the nearest thousand.						
A) 15046 B) 15406		uction section					
C) 15460 D) 14064	Answer	i set i concercione a concercione					
3A) 96 + 673 + 9 =	3B) 704 - 38 =	4A) 86 x 406 =					
	The second s						
4B) 47) 51,653	5) Simplify 4 + 2(12 - 4) + 2 ²	6) What are the prime factors of 30?					
100 Million (100 100 100 100 100 100 100 100 100 10		M1 00					

Introducing Fred Look Ahead and Lulu Review

