

The unit numbers shown here and on the following pages relate to the 49 one-page learning outlines of a book entitled **Test-Prep Mathematics**. **Test-Prep Mathematics** is described on the final page of **Mathematics Review**.

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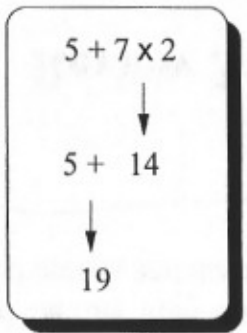


## Review 2 Whole Numbers

<b>Unit 1</b>									
<b>Place value names</b>	Hundreds	Tens	Units	Hundreds	Tens	Units	Hundreds	Tens	Units
	Millions			Thousands			Ones		
<b>Writing numbers</b>	The number four million two hundred sixty-five thousand four hundred one is written as follows:  4,265,401								
<b>Unit 2</b>	1. Do not use the word "and"			The number 83,206,812 would be written as follows:					
<b>Writing whole numbers with words</b>	2. Use a hyphen for numbers 21 to 99			eighty-three million two hundred six thousand eight hundred twelve					
<b>Symbols used to compare numbers</b>		<b>Relationship</b>		<b>Symbol</b>		<b>Example</b>			
		is greater than		>		8 > 6			
		is less than		<		6 < 8			
		is equal to		=		7 = 4 + 3			
		is not equal to		≠		1 + 6 ≠ 8			
		is approximately equal to		≈		90 ≈ 88			
<b>Rounding</b>	1. Determine the number of places desired in the answer.			Rounding 478 to the nearest ten gives 480.					
	2. Round up if the digit to the right is greater than or equal to 5.			480 ≈ 478					
	3. Do not round up if the digit to the right is less than 5.			Rounding 7,648 to the nearest hundred gives 7,600.					
	4. Replace the remaining digits with zeros.			7,600 ≈ 7,648					

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<b>Unit 3</b> <b>Addition of whole numbers</b>	<ol style="list-style-type: none"> <li>Line up the units column.</li> <li>Sums larger than 9 require <b>carrying</b> one or more tens one place to the left.</li> </ol>	$\begin{array}{r} 4 \quad 34 \quad 35 \quad 111 \\ +1 \quad +2 \quad +78 \quad +97 \\ \hline 5 \quad 36 \quad 113 \quad 208 \end{array}$
<b>Subtraction of whole numbers</b>	<ol style="list-style-type: none"> <li>Line up the units column.</li> <li>Subtracting a larger number such as 8, from a smaller number such as 4, requires <b>borrowing</b> a ten from the place to the left.</li> </ol>	$\begin{array}{r} 5 \quad 36 \quad 113 \quad 514 \\ -1 \quad -2 \quad -78 \quad -38 \\ \hline 4 \quad 34 \quad 35 \quad 26 \end{array}$
<b>Unit 4</b> <b>Multiplication of whole numbers</b>	<ol style="list-style-type: none"> <li>Line up the units column.</li> <li>Going over 9 requires carrying one or more tens.</li> <li><b>Indenting</b> is required when both numbers have 2 or more places.</li> </ol>	$\begin{array}{r} 2 \quad 333 \quad 37 \\ \times 3 \quad \times 3 \quad \times 201 \\ \hline 6 \quad 999 \quad 37 \\ \phantom{6} \phantom{999} \phantom{37} 00 \\ \phantom{6} \phantom{999} \phantom{37} 74 \\ \hline 7,437 \end{array}$
<b>Division of whole numbers</b>	<ol style="list-style-type: none"> <li>Choose the largest number that will fit.</li> <li>Multiply to make sure it fits.</li> <li>Subtract.</li> <li>Continue until the remainder is less than what is being divided by.</li> </ol>	$\begin{array}{r} 20 \\ 3 \overline{)60} \\ \underline{6} \phantom{0} \\ 00 \\ \underline{00} \\ 0 \end{array}$ $\begin{array}{r} 2 \text{ R } 1 \\ 4 \overline{)9} \\ \underline{8} \\ 1 \end{array}$
<b>Unit 5</b> <b>The Order of Operations</b>  1st Operations within parentheses 2nd Exponents and roots (highest order) 3rd Multiplication and division (middle order) 4th Addition and subtraction (lowest order)  Equal order operations are done left to right.		<b>Unit 6</b> <b>Prime numbers</b>  <ol style="list-style-type: none"> <li>A <b>prime number</b> is a number greater than 1 that has only 1 and itself as factors. Prime numbers include 2, 3, 5, 7, 11, 13, 17, 19, etc.</li> <li>Numbers that are not prime are <b>composite numbers</b>. Composite numbers include 4, 6, 8, 9, 10, 12, 14, 15, etc.</li> <li>Composite numbers can be expressed as the product of prime factors.</li> </ol>