

Set A1 ★ Independent Worksheet 2

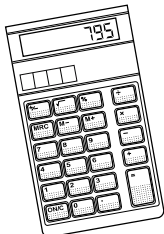
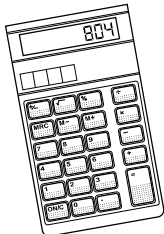
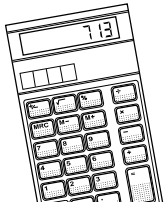


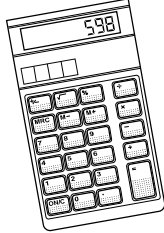
INDEPENDENT WORKSHEET

Are These Answers Reasonable?

Compatible numbers are numbers that work well together. If a pair of numbers is easy to add or subtract, those numbers are *compatible*. You can check to see if answers to problems are reasonable by changing the actual numbers to compatible numbers.

Use compatible numbers to decide whether or not the answer to each problem below is reasonable or not. Explain your answer each time

Question	Is this answer reasonable? Why or why not?
<p>example Ty used a calculator to add 598 and 349. Here's the answer he got:</p> 	<p>It's not reasonable because 598 is close to 600 and 349 is close to 350. $600 + 350 = 950$, so 795 is way off.</p>
<p>1 Abby used a calculator to add 203, 449, and 152. Here's the answer she got:</p> 	
<p>2 Miguel used a calculator to find the difference between 1,203 and 598. Here's the answer he got:</p> 	

Question	Is this answer reasonable? Why or why not?												
<p>3 Keiko used a calculator to add 749 and 498. Then she subtracted 649. Here's the final answer she got:</p> 													
<p>4 Mr. Gordon went to the store to buy some fruit. Here's his sales slip.</p> <table border="1" data-bbox="272 814 597 1129"> <thead> <tr> <th colspan="2">Thriftee Mart</th> </tr> </thead> <tbody> <tr> <td>Peaches</td> <td>\$1.99</td> </tr> <tr> <td>Grapes</td> <td>\$2.03</td> </tr> <tr> <td>Apples</td> <td>\$1.49</td> </tr> <tr> <td>Bananas</td> <td><u>\$1.52</u></td> </tr> <tr> <td>Total</td> <td>\$9.28</td> </tr> </tbody> </table>	Thriftee Mart		Peaches	\$1.99	Grapes	\$2.03	Apples	\$1.49	Bananas	<u>\$1.52</u>	Total	\$9.28	
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<p>5 Mrs. Chan went to an office supply store in Oregon where there is no sales tax. She bought 6 boxes of markers for \$3.99 a box, 1 box of pencil grips for \$4.99, 10 boxes of pencils for \$.99 each, and an electric pencil sharpener for \$13.99. She gave the lady at the check stand three 20-dollar bills and got back \$7.18 in change.</p>													

NAME _____



Independent Worksheet 2 Are These Answers Reasonable? (cont.)

6 We have 4 elementary schools in our town, 2 middle schools, and 1 high school. The chart below shows how many students there are at each school.

Name of School	Number of Students
King Elementary	514
Lincoln Elementary	413
Garfield Elementary	226
Adams Elementary	399
Madison Middle School	598
Jefferson Middle School	603
Grant High School	1,012

a The town newsletter said that there are 320 more students at King and Lincoln than there are at Garfield and Adams. Is this a reasonable statement? Why or why not?

b My brother said that if you add the number of students at both the middle schools, there are about 200 more kids at the middle schools than there are at the high school. Is this a reasonable estimate? Why or why not?

c *About* how many students are there in all 7 schools put together? Use compatible numbers to help make your estimate. Show your work below.