Alternate algorithms:

1. Show how to compute 64+37 using **three** different student invented/mental math alternate algorithms. You must show at least one of your strategies on an open number line.

2. Show how to compute 83 – 59 using

1. The negative number algorithm
2. Adding up on an open number line (looking for numbers that end in 0)
3. Another student invented/mental math alternate algorithms of your choice.

3. Show how to compute 358 + 284 using each strategy:

1. Add in place values and combine (write out using equations)
2. The expanded addition algorithm

4. Show how to compute 624 – 158 using each strategy:

1. Break into place values (expanded subtraction)
2. Trade first subtraction
3. Equal additions subtraction algorithm

5. A student is subtracting 71-28 by:

|  |  |
| --- | --- |
| subtracting the tens | 70 - 20 = 50 |
| adjusting the answer for the 8 in 28 | 50 – 8 = 42 |
| adjusting the answer for the 1 in 71 | 42 + 1 = 43 |

1. in step 2, why is the 8 subtracted rather than added?
2. in step 3, why is the 1 added rather than subtracted?