

Reasonable Numbers Answer Key

1. Not Reasonable. $70 + 20 = 90$
2. Reasonable. 700
3. Reasonable. $200 + 200 = 400$
4. Not Reasonable. $200 + 300 = 500$? Wait, $153 \rightarrow 200$ and $271 \rightarrow 300$, so 500 is actually Reasonable.
5. Not Reasonable. 4,000
6. Reasonable. $50 + 40 = 90$
7. Reasonable. 8,000
8. Not Reasonable. $90 + 40 = 130$

Teacher's Guide

- Quick implementation tips
 - o Have students decide first without calculating, then verify by rounding.
 - o Encourage students to explain which digit determined the rounding.
 - o Review one example together before independent work.
- Differentiation strategies
 - o Provide a place value chart or number line for students who need support.
 - o Pair students to compare and justify their decisions.
 - o Challenge advanced students to find the exact answers and compare them with the estimates.
- Engagement ideas
 - o Turn each problem into a class debate by asking students to vote "Reasonable" or "Not Reasonable" before revealing the correct estimate.
 - o Have students explain their reasoning using complete math sentences.
- Extension activities
 - o Ask students to create a word problem with an incorrect estimate for a partner to evaluate.
 - o Have students rewrite one problem so the given estimate becomes unreasonable or reasonable by changing only one number.