Name _____ Date _____

Balance or Tilt

Homework

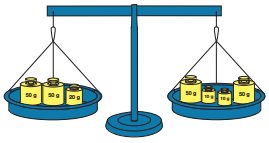
Dear Family Member:

We have been using the context of measuring mass to practice some very important addition properties. Using a concrete model, the two-pan balance, students have learned about the abstract concept of equality. They have learned that the equal sign in an equation is like a balance. Whatever is on one side of the equation "balances" or equals what is on the other side. If the masses in each pan of a two-pan balance are equivalent, they are balanced. If they are not, the balance will tilt. In this context, students have also learned that they can add and group the numbers in an addition sentence in any order that makes sense to them.

Thank you.

Find the total value of the gram masses in each pan. Write number sentences for each pan. Group and add the numbers in a way that makes sense to you. Decide if the pans will balance or tilt. Circle one.

1.



The pans will: balance tilt

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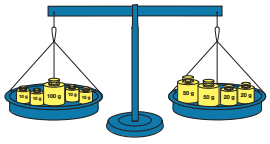
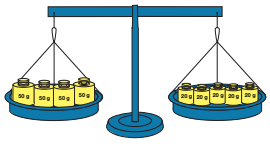
Name _____ Date _____

2.



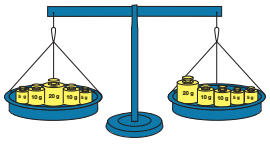
The pans will: balance tilt

3.



The pans will: balance tilt

4.



The pans will: balance tilt

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Homework
Questions 1–4

Number sentences will vary.

1. balance; $50 + 50 + 20 = 120$; $50 + 10 + 50 = 120$
2. balance; $10 + 10 + 100 + 10 + 10 = 140$; $50 + 50 + 20 + 20 = 140$
3. tilt; $50 + 50 + 50 + 50 = 200$; $20 + 20 + 20 + 20 + 20 = 100$
4. balance; $5 + 10 + 20 + 10 + 5 = 50$; $20 + 10 + 10 + 5 + 5 = 50$

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