a. Find the actual sum either on paper or using mental math. Round each addend to the nearest hundred and find the estimated sums.

A

$$451 + 249 = \frac{700}{500 + 200} = \frac{700}{100}$$

Circle the estimated sum that is the closest to its real sum. B

Circle the estimated sum that is the closest to its real sum.

(

$$652 + 158 = 810$$
 $700 + 200 = 900$

Circle the estimated sum that is the closest to its real sum.

Look at the sums that gave the most precise estimates. Explain below what they have in common.
 You might use a number line to support your explanation.

All of the numbers we added were really close the halfway point. In the sums that gave the most precise estimates, one number always rounded up and one number always rounded up and one number always rounded down. So, they balanced each other out and gave the most precise estimate.

For example in part A, 451+249 = 700

- Janet watches a movie that is 94 minutes long on Friday night. She watches a movie that is 151 minutes long on Saturday night.
 - a. Decide how to round the minutes. Then estimate the total minutes Janet watched movies on Friday and Saturday.

150min + 90 min = 240 minutes 151 ≈ 150 I decided to round to the nearest 10 minutes and 94≈90 found Jonet watched about 240 minutes in total.

b. How much time does Janet actually spend watching movies?

151 min + 94 min = 245 min.

Janet actually spends 245 minutes watching movies.

 Explain whether your estimated sum is close to the actual sum. Round in a different way and see which estimate is closer.

151 ≈ 200 yes, the estimated sum is close to the real sum. Rounding to the 912 900 nearest ten minutes was only 5 minutes away from the real sum. But when I round to the nearest 100 the estimate is not as close to the actual sum.

- 3. Sadie, the bear at the zoo, weighs 182 kilograms. Her cub weighs 74 kilograms.
 - a. Estimate the total weight of Sadie and her cub using whatever method you think best.

182 × 180 180+70=250

The total weight of Sadie and her cubis about 250 kilograms.

b. What is the actual weight of Sadie and her cub? Model the problem with a tape diagram.

