

# Homework & Practice 2-2

## Mental Math: Estimate Sums and Differences

### Another Look!



You can use rounding to estimate sums and differences.

To estimate  $64,236 + 15,542$ :

Round to the nearest hundred

$$64,200 + 15,500 = 79,700$$

Round to the nearest thousand

$$64,000 + 16,000 = 80,000$$

Round to the nearest ten thousand

$$60,000 + 20,000 = 80,000$$

To estimate  $452,776 - 186,257$ :

Round to the nearest thousand

$$453,000 - 186,000 = 267,000$$

Round to the nearest ten thousand

$$450,000 - 190,000 = 260,000$$

Round to the nearest hundred thousand

$$500,000 - 200,000 = 300,000$$

For **1–10**, estimate each sum or difference.

1.  $753,265 \rightarrow \square\square,000$     2.  $48,765 \rightarrow \square\square,000$     3.  $7,792 \rightarrow \square,000$   
 $- 419,057 \rightarrow -\square\square,000$      $+ 9,221 \rightarrow +\square,000$      $- 3,847 \rightarrow -\square,000$

4.  $2,189$   
 $+ 1,388$

5.  $9,245$   
 $- 4,033$

6.  $1,000,000$   
 $- 447,618$

7.  $65,327 - 14,231$

8.  $391,192 + 511,864$

9.  $8,475 + 1,329$

10.  $812,910 - 709,085$

Your estimate may be different from someone else's estimate. That's okay if both estimates are reasonable.



For 11–12, use the table at the right.

11. **MP.1 Make Sense and Persevere** About how much greater is the area of the largest ocean than the area of the smallest ocean?
12. Write the area of the Pacific Ocean in expanded form.



Ocean Area	
Ocean	Area (sq km)
Arctic Ocean	14,090
Atlantic Ocean	82,400
Indian Ocean	65,527
Pacific Ocean	165,760

13. **Algebra** In a local election, 138,201 people voted for the winning candidate. If she won by 29,288 votes, about how many votes did the other candidate receive?
14. In one weekend, a theatre sells 74,877 tickets to a new movie. Write the values for each of the 7s in 74,877.
15. **Number Sense** Is  $9,760 - 5,220$  more or less than 4,000? Explain how you can tell without finding the exact difference.
16. **Higher Order Thinking** The fourth graders sang on a two-day telethon for the local children's hospital. The hospital hoped to raise \$750,000. On day one, they raised \$398,622. On day two, they raised \$379,873. Did they reach their goal? About how much more or less did they raise?

## Common Core Assessment

17. Anya says, "62,996 rounds to 63,000." Select all the places to which she could have rounded the number.
- ones
  - tens
  - hundreds
  - thousands
  - ten thousands
18. Select all of the choices that are reasonable estimates for the difference of  $874,169 - 387,245$  by rounding to place values.
- 486,920
  - 487,000
  - 480,000
  - 500,000
  - 600,000