



SKILL 6: Estimating Sums and Differences

To estimate a sum or a difference, round the numbers to make the computation easier.

Example 1

Estimate $58,281 + 23,685$.

Round each number so they are easy to add to one another. For example, round both numbers to ten thousands.

58,281 rounds to 60,000.

23,685 rounds to 20,000.

So, $58,281 + 23,685$ is about 80,000.

Add.

$$\begin{array}{r} 60,000 \\ + 20,000 \\ \hline 80,000 \end{array}$$

Example 2

Estimate $310 + 305 + 298 + 296 + 302$ by using a number that is close to all of the numbers. (This is called **clustering**.)

Each of the numbers is close to 300. There are 5 numbers.

$$300 + 300 + 300 + 300 + 300 = 5 \times 300 = 1500$$

So, $310 + 305 + 298 + 296 + 302$ is about 1500.

Guided Practice

Estimate. Show the rounded numbers you used.

1. $2,118 + 4,628$

_____ + _____ = _____

2. $93,803 - 52,524$

_____ - _____ = _____

3. $1,281 - 908$

_____ - _____ = _____

4. $759,833 + 48,395$

_____ + _____ = _____

5. Estimate $1,891 + 1,994 + 2,159$ using clustering.

a. What number is close to the three numbers being added? _____

b. How many numbers are being added? _____

c. Estimate $1,891 + 1,994 + 2,159$. _____

6. Estimate $468 + 525 + 491 + 501$ using clustering. _____

SKILL 6: Practice**Estimate.**

1. $38,624 + 83,102$

2. $47,623 - 12,385$

3. $37 + 42 + 43$

4. $387 + 410 + 405$

5. $824,368 + 217,638$

6. $847,167 - 382,208$

7. $6,375 - 1,890$

8. $7,538 + 2,317$

9. $163,462 + 3,210$

10. $6,138 + 5,963 + 6,023 + 5,874 + 6,003$ _____

11. $69 + 73 + 71 + 68 + 70 + 72 + 67 + 72$ _____

12. $894 + 925 + 888 + 907 + 873 + 895$ _____

13. $83,762 + 83,984 + 84,731 + 84,201$ _____

14. $1,632 + 3,129 + 6,473 + 3,217$ _____

15. $58,128 + 59,370 + 60,028 + 62,310$ _____

Solve.

16. A world record for dart throwing was set by the members of the Broken Hill Darts Club, with a score of 1,722,249 points in 24 hours. The record score for a women's team is 744,439, achieved by a British team. About how many more points were scored by the Broken Hill Darts Club than by the British team?
- _____



17. Estimate:
- $49 + 52 + 46$
- .

A 15

C 120

B 100

D 150

Skill 6

18. Round 2,807,563 to the nearest thousand.

F 3,000,000

H 2,808,000

G 2,800,000

J 2,807,000

Skill 2