



Name _____ Date _____

Estimating Sums and Differences

(pages 112–115)

One way to estimate sums is to round the amounts to the same place-value position and then add. **Clustering** is another way to estimate.

Estimating by Rounding	<ul style="list-style-type: none"> • Round each number to the same place-value position, often ones. • Add or subtract the rounded numbers.
Estimating by Clustering	<p>Use clustering when all the numbers are close to the same number.</p> <ul style="list-style-type: none"> • Round each number to the same number—the number they cluster around. • Add or subtract the rounded numbers.

EXAMPLES

A Estimate using rounding.

$$\$45.27 - \$4.87$$

Round each amount to the nearest dollar.

$$\$45 - \$5 = \$40$$

B Estimate using clustering.

$$10.76 + 11.1 + 10.98 + 11 + 10.7$$

All the numbers cluster around 11, so add

$$11 + 11 + 11 + 11 + 11 = 55.$$

Try These Together

1. About how much more is \$25.10 than \$14.98?

HINT: Round each amount to the nearest dollar and subtract.

2. About how much lower is a temperature of 59.5 degrees than one of 91.3 degrees?

HINT: Round before you subtract.

PRACTICE

Estimate using rounding.

3. $1.2 + 1.8$

4. $0.76 + 0.14$

5. $5.3 + 4.8$

6. $18.2 + 2.4$

7. $25.6 + 3.8$

8. $\$1.86 + \1.25

9. $20.3 - 18.1$

10. $7.6 - 4.3$

11. $15.8 - 12.3$

Estimate using clustering.

12. $\$6.12 + \5.87

13. $28.9 + 29.1$

14. $0.86 + 0.9 + 0.93$

15. $4.56 + 4.59 + 4.61$

16. $2.9 + 3.2 + 3.1$

17. $0.3 + 0.32 + 0.29$

18. Estimate the sum $\$5.67 + \4.69 .

19. About how much more is 68.1 than 57.7?

20. **Money Matters** Keesha is going out for pizza with her friends. She knows pizza will cost \$5.65 and a drink will cost \$1.55. Estimate how much money she should bring with her.



21. **Standardized Test Practice** To make a dessert, Thomas needs 1.2 pounds of chocolate chips and 0.8 pounds of peanut butter chips. Estimate how many pounds of chocolate and peanut butter chips he needs all together.

A 1

B 2

C 3

D 4

Answers: 1. about \$10 2. about 30 degrees 3. 3 4. 0.9 or 1 5. 10 6. 20 7. 30 8. \$3.00 9. 2 10. 4 11. 4 12. \$12.00 13. 58 14. 2.7 15. 13.8 16. 9 17. 0.9 18. \$11.00 19. 10 20. \$8.00 21. B