

Estimate – Sum and Difference of Decimals

1. Round off to the nearest whole number then estimate the sum.

$$\begin{array}{r} \text{a. } 17.03 \\ + 7.64 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c. } 18.26 \\ + 45.30 \\ \hline \end{array}$$

$$\begin{array}{r} \text{e. } 5.45 \\ + 63.32 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b. } 13.32 \\ + 53.12 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d. } 19.34 \\ + 64.01 \\ \hline \end{array}$$

$$\begin{array}{r} \text{f. } 12.10 \\ + 86.70 \\ \hline \end{array}$$

Solution:

- a.
- b.
- c.
- d.
- e.
- f.

2. Round off to the nearest ten and then estimate.

$$\begin{array}{r} \text{a. } 11.104 \\ + 25.227 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c. } 35.751 \\ + 18.549 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b. } 22.345 \\ - 7.811 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d. } 81.398 \\ - 7.143 \\ \hline \end{array}$$

Solution:

- a.
- b.
- c.
- d.

3. Estimate the sum or the difference of the given decimals by rounding off each number to its highest place value.

$$\text{a. } 67.39 + 8.41 + 7.31$$

$$\text{b. } 22.11 + 16.64 - 13.45$$

$$\text{c. } 23.97 - 12.34$$

$$\text{d. } 11.04 + 25.13$$

$$\text{e. } 49.67 - 17.53$$

$$\text{f. } 411.21 + 69.33 - 52.19$$

Solution:

- a.
- b.
- c.
- d.
- e.
- f.

4. Grace purchased a box of pencils for \$1.28 and gave the cashier \$10. Which is the best estimate would she get back as a change?

Solution:

5. Ellen wanted to buy the following items: a DVD player for \$35.15, a DVD holder for \$29.25, and a personal stereo for \$21.95. Does Ellen have enough money to buy all three items if she has \$90 with her? Estimate the total amount of the three items she wanted to buy.

Solution:

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Answer Key

1.

- a. 25
- b. 66
- c. 63
- d. 83
- e. 68
- f. 99

2.

- a. 40
- b. 10
- c. 60
- d. 70

3.

- a. 85
- b. 30
- c. 10
- d. 40
- e. 30
- f. 420

4. \$8.30

5. Appropriate estimation is $\$35.20 + \$29.30 + \$22 = \86.50 .