

Problem Solving: Rounding and Estimating Exit Quiz

Multiple Choice

1. Round 0.009 to the nearest hundredth.

a.) 0.001

b.) 0.01

c.) 0.0001

d.) 0.1

2. Round 1.099 to the nearest tenth.

a.) 1.09

b.) 1.99

c.) 1.100

d.) 1.019

3. For $98 + 21$ the best estimate is:

a.) 120

b.) 100

c.) 110

d.) 130

4. Estimate the answer using cluster estimation.

$$120 + 99 + 112 + 106 =$$

5. Solve the problem using estimation.

At the grocery store Phil fills his cart with items that cost: \$2.99, \$2.49, \$6.99, \$1.69, \$7.79.
About how much money will he need to hand the cashier?

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ANSWERS

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Notice that they all cluster around **100**.

$$100 + 100 + 100 + 100 = 4 * 100 = \mathbf{400}$$

Real answer:

$$120 + 99 + 112 + 106 = \mathbf{437}$$

5. Solve the problem using estimation.

At the grocery store Phil fills his cart with items that cost: \$2.99, \$2.49, \$6.99, \$1.69, \$7.79. About how much money will he need to hand the cashier?

$$\$2.99 \rightarrow \$3, \quad \$3 + \$3 + \$7 + \$2 + \$8 = \mathbf{\$23}$$

$$\$2.49 \rightarrow \$3$$

$$\$6.99 \rightarrow \$7$$

$$\$1.69 \rightarrow \$2$$

$$\$7.79 \rightarrow \$8$$

If Phil has at least **\$23**, he knows he has enough money to pay for these groceries.