Level **B**

Math

Steck-Vaughn Adult Education Solutions

SAMPLER

The **CASAS Tutor ™** series provides step-by-step instruction and targeted practice for the CASAS Content Standards and Adult Education College and Career Readiness Standards assessed on the CASAS GOALS tests. All practice items are aligned to CASAS Competencies and presented in a format that mirrors the CASAS GOALs test items to familiarize students with the test format.

CASAS Tutor ™ Math books have five units covering key math skills that adults need to succeed on the job and in life.

• Number Sense
• Algebra
• Geometry
• Measurement
• Statistics, Data Analysis, and Probability

The **CASAS Tutor ™ Practice** workbooks complement the **CASAS Tutor ™** series and provide comprehensive skills practice for CASAS GOALS post-testing. Practice items are aligned to CASAS Competencies and mirror the format of CASAS GOALS test items to help students gain confidence and make level-to-level gains. All practice items are aligned to the CASAS Content Standards and Adult Education College and Career Readiness Standards assessed on the CASAS GOALS tests.

To estimate is to find an answer that is close to the exact answer. One way to estimate is to round. You can round whole numbers and decimal numbers to any place.

Example **A parade was attended by 8,726 people. In its headline, the local newspaper rounded the attendance to the nearest thousand people. What number appeared in the headline?**

1) Identify what place value you are rounding to. In this case, you are rounding to the thousands.

2) Look at the digit to the right of the rounding place.

8,726

8 is in the thousands place.

7 is in the place to the right, in the hundreds place.
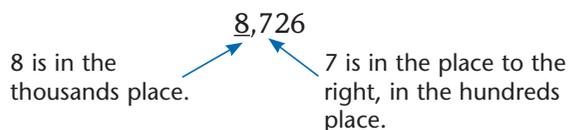
3) Compare the hundreds digit to 5. If the digit is 5 or greater, round up to the next thousand.

Because 7 is greater than 5, add 1 to the thousands place and replace the digits to the right of the rounding place with zeros.

8,726 rounds to 9,000

The newspaper reported that 9,000 attended the parade.

You can round decimals just as you would round whole numbers. Rounding numbers is a method used to estimate. To round a number to a particular place, look at the digit to its right.

• If it is 5 or more, round up.   • If it is less than 5, round down.

Example **A new laptop costs $550.39. A store wants to advertise the price using a whole number, and will round the price to the ones place. What number appears in the ad?**

1) Identify the place value you are rounding to. In this case, you are rounding to the ones.

2) Look at the digit to the right of the rounding place.

$550.39

0 is in the ones place.

3 is in the place to the right, in the tenths place.
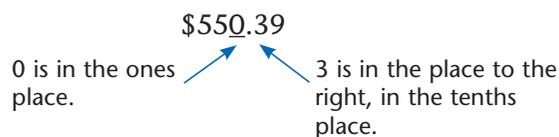
3) Compare the tenths digit to 5. If the digit is less than 5, round down. Because 3 is less than 5, the ones place will stay the same and you can replace the digits to the right of the decimal point with zeros.

$550.39 rounds to $550.00

The store advertises the laptop as costing $550.

1. A grocery store bill comes to $56.47. What is the cost of the bill rounded to the nearest tenth?

   A. $56.40
   B. $56.45
   C. $56.47
   D. $56.50

1. **D** To round to the nearest tenth, look at the place to the right, which is the hundredths place. Compare the hundredths digit to 5. Because 7 is more than 5, round up. 56.47 rounds to 56.50.

Practice

Read each question. Select the correct answer.

1 A theater has a capacity of 915 people. What is the theater's capacity when rounded to the nearest hundred?

   A. 900
   B. 910
   C. 920
   D. 1,000

2 A new couch costs $1,212.48. What is the cost of the couch when rounded to the nearest ten?

   A. $1,212.50
   B. $1,212.00
   C. $1,210.00
   D. $1,200.00

3 A jug full of water weighs 41.76 pounds. What is the jug's weight when rounded to the nearest tenth?

   A. 42.0 pounds
   B. 41.0 pounds
   C. 41.7 pounds
   D. 41.8 pounds

4 A train ride is 42.43 minutes long. How long is the train ride when rounded to the nearest ten?

   A. 42.0 minutes
   B. 42.4 minutes
   C. 41.0 minutes
   D. 40.0 minutes

5 The distance between two cities is 216.35 miles. What is the distance when rounded to the nearest one?

   A. 216.0 miles
   B. 217.0 miles
   C. 216.3 miles
   D. 216.4 miles

6 A town has a population of 62,939 people. What is the town's population when rounded to the nearest thousand?

   A. 62,000
   B. 62,900
   C. 62,940
   D. 63,000

7 A box weighs 32.485 kilograms. What is the box's weight when rounded to the nearest hundredth?

   A. 32.40 kg
   B. 32.48 kg
   C. 32.49 kg
   D. 32.50 kg

8 An electric bill is $112.63. What is the cost of the bill when rounded to the nearest one?

   A. $112.00
   B. $112.60
   C. $112.70
   D. $113.00

9 A dog weighs 57.38 pounds. What is the dog's weight when rounded to the nearest tenth?

   A. 57.0 pounds
   B. 57.3 pounds
   C. 57.4 pounds
   D. 58.0 pounds

10 A carpenter needs to cut a piece of wood that is exactly 12.65 feet long. Which piece of wood could he use?

   A. 12.0 feet
   B. 12.3 feet
   C. 12.5 feet
   D. 12.8 feet