

You compute with decimals when you shop or when you measure using metric units. Many statistics including those in sports involve decimals.

To add and subtract with decimals, add and subtract as you would whole numbers. Remember to align the decimal point in the sum or difference with the decimal points in the numbers you are adding or subtracting.

1. Elliot buys a video game for \$24.95 and a pair of headphones for \$16.99. He hands the clerk \$50. How much change should Elliot get?

Multiply decimals as you would whole numbers. When multiplication is complete, place the decimal point in the product by finding the total number of digits to the right of the decimal points in the factors. The product will have the same number of places to the right of the decimal point.

2. Shauna buys 12.2 gallons of gas for \$2.90 per gallon. How much will she spend?

To divide a decimal by a whole number, place the decimal point in the quotient directly above the decimal point in the dividend. Then divide as you would whole numbers.

One difference in division with decimals is that you may have to write zeros in the dividend so that you have enough digits to divide.

3. Darby is hiking 6.8 kilometers. She will stop 8 times along her route. If her stops are equally spaced, how far will she hike before her first rest stop?

4. Jill earns \$9.50 per hour for walking her neighbors' dogs. Last week, she earned \$114. For how many hours did Jill walk the dogs last week?