

Name: Class:

Add, subtract, multiply, or divide two decimals: Word problems

1. During a swimming competition, David swam 6.2 miles longer than his competitor John who only swam 4.002 miles. How much further did David swim more than John?



2. A class of 25 students went on a field tripe to the zoo. Each student had to pay \$25.75 for the entrance fee. How much will it cost 25 students?

3. In one inch, there are 2.54 centimeters. How many inches are there in 269.36 centimeters? Write your answer in four decimal places.

4. A cyclist covers a distance of 750 meters in 150. 83 seconds. The following day, he doubles the distance and covered it in 301.66 seconds. How much distance did he cover in all? Write your answer to the nearest hundredths.



Name: Class:

Add, subtract, multiply, or divide two decimals: Word problems

1. During a swimming competition, David swam 6.2 miles longer than his competitor, John who only swam 4.002 miles. How much further did David swim more than John?
 perform subtraction to solve this problem.
 subtract John's distance from David's distance
 $6.2 \text{ miles} - 4.002 \text{ miles} = 2.198$
 Therefore, David swam 2.198 miles further than John.



2. A class of 25 students went on a field tripe to the zoo. Each student had to pay \$25.75 for the entrance fee. How much will it cost 25 students?

to solve this problem, we have to multiply the number of students by the cost of the entrance fee for each student.

$$\begin{array}{r} 25.75 \\ \times 25.00 \\ \hline \end{array} \longrightarrow \begin{array}{r} 2575 \\ \times 25 \\ \hline 12875 \\ + 51500 \\ \hline 64375 \end{array} \longrightarrow \begin{array}{r} 25.75 \text{ has 2 decimal places} \\ \text{count 2 decimal places from} \\ \text{the right to the left of the answer} \\ \text{so, } 64375 = 643.75 \end{array}$$

643.75

Therefore, it will cost \$ 643.75 for all the students

3. In one inch, there are 2.54 centimeters. How many inches are there in 269.36 centimeters? Write your answer in four decimal places.

Divide 269.36 centimeters by 2.54 centimeters to solve this problem

$$269.36 \div 2.54 = 106.04724 = 106.0472 \text{ (in 4 decimal places)}$$

Therefore, there are 106.0472 inches in 269.36cm

4. A cyclist covers a distance of 750 meters in 150.83 seconds. The following day, he doubles the distance and covered it in 301.66 seconds. How much distance did he cover in all? Write your answer to the nearest hundredths.

To solve the problem, add 150.83 seconds to 301.66 seconds

$$\begin{array}{r} 150.83 \\ + 301.66 \\ \hline 452.49 \end{array}$$

452.49 seconds

