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. I have a very long rope measuring 752.50m. If I cut the rope into a piece measuring 50.75m, what is the length of the original rope now?

5. Today, my four friends and I ordered some pizza. The total bill was $50.26. To the nearest cent, how much money did each of us pay if we divided the bill equally?

6. Aliya has a piece of cloth measuring 25.69 meters long and 75.50 meters wide. What is the area of the cloth?

7. A basket of cherries weighs 90.23 kilograms and a basket of apples weighs 25.96 kilograms
What is the total weight of the baskets combined?

Solution

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

1. perform subtraction to solve this problem.
subtract John's distance from David's distance
6.2 miles - 4.002 miles = 2. 198
Therefore, David swam 2.198 miles further than John.

2. Since 25.75 has 2 decimal places count 2 decimal places from the right to the left of the answer
so, 64375 = 643 . 75
Therefore, it will cost $ 643.75 for all the students

3. Divide 269.36 centimeters by 2.54 centimeters to solve this problem
269.36 ÷ 2.54 = 106 . 04724 = 106.0472 (in 4 decimal places)
Therefore, there are 106.0472 inches in 269.36cm

4. length of the original rope now = Length of the rope - Length of the piece I cut from the original rope.
752.50m – 50.75 = 701.75m
So, the length of the original rope now is 701.75m.

5. amount of money each person paid = Total bill ÷ Number of people that divided the bill.
$50.26 ÷ 5 = $10.052 = $10.05 (to the nearest cent)
So, each person paid $10.05.

6. Therefore, area of the cloth = Length of the piece of cloth × Width of the piece of cloth.
25.69m × 75.50m = 1,939.595m^2
The area of the piece of cloth is 1,939.595m^2

7. total weight of all the baskets = Weight of the basket of cherries + Weight of the basket of apples.
90.23kg + 25.96kg = 116.19kg
So, the weight of the baskets combine is 116.19 kilograms.