

Name: ..... Class: .....

## Fraction of a whole - word problems

1. Ismaël and his 4 friends went out for their usual morning workout. While they were resting, they decided to share the sparkling bottle of water that Ismaël took along with him. Jane poured equal volume of water into 6 cups. Since Ismaël was so thirsty, he drank 2 cups of water. What fraction of sparkling water did Ismaël drink?
2. Lysa's best friend baked a very beautiful cake and sent it to her as her birthday present. Lysa was very excited and cut the cake into 19 equal pieces for her friends that attended the party. One of them ate 3 pieces of the cake alone. Lysa was so upset because some of her friends didn't get a piece of cake. What fraction of the cake did Lysa's friend eat?
3. Mr. Daniel is a teacher in a very famous elementary school. He uses different type of markers to teach. He has 5 red markers, 7 brown markers, 2 black markers and 9 green markers on his desk. What fraction of green markers can be seen on Mr. Daniel's desk?
4. A dairy farm has a total of 50 cows. Out of these cows, four- twenty-fifth produced 5 liters of milk each day, twelve- twenty-fifth produced 10 liters of milk every day and ninth-twenty-fifth produced 15 liters of milk each day. How many cows produce 5 liters of milk per day?
5. Nora always makes sure that she typed 7,000 words each day to increase her typing skills. She usually spends  $\frac{2}{7}$  of an hour to do this. If she does this for seven consecutive days, how much time did she spend typing for the seven consecutive days in all?

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- ▶ Jane poured equal volume of water in : 6 cups (the denominator is 6).
- ▶ Ismaël drank : 2 cups (the numerator of the fraction is 2).

Therefore, Ismaël drank a fraction of  $\frac{1}{3}$  cup of the sparkling water.

2. ▶ Lysa divided the cake into: 19 equal pieces (the denominator is 19).  
 ▶ Lysa's friends ate : 3 pieces (the numerator of the fraction is 3).

Therefore, Lysa's friend ate a fraction of  $\frac{3}{19}$  pieces of cake.

3. ▶ Total number of markers:  $9 + 7 + 2 + 5 = 23$  markers (the denominator is 23).  
 ▶ Mr. Daniel has : 9 green markers (the numerator of the fraction is 9).

Therefore, a fraction of  $\frac{9}{23}$  green markers can be seen on Mr. Daniel's desk.

4. ▶ Total number of cows in the dairy farm = 50.  
 ▶ Fraction of the cows that produce 5 liters of milk per day =  $\frac{4}{25}$

So, 8 cows produces 5 liters of milk per day.

5. ▶ Total number of words she typed each day = 7,000  
 ▶ Number of days she typed these words = 7  
 ▶ Fraction of an hour she usually spent typing per day =  $\frac{2}{7}$

So, she spent 2 hours typing for the seven consecutive days in all.