

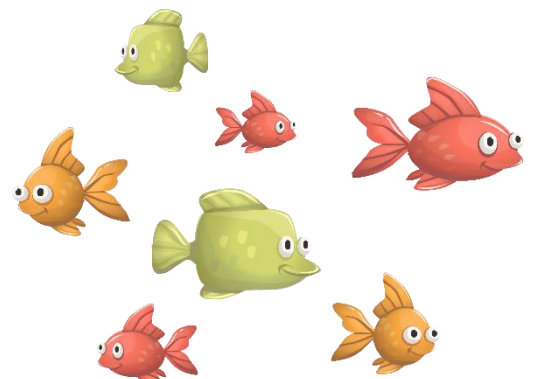
## Fraction word problems

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### Grade 5 Word Problems Worksheet

An aquarium has exhibits that feature different marine animals.

1.  $\frac{5}{8}$  of the staff are male.  $\frac{5}{12}$  of the staff works part time at the aquarium. What fraction of the staff is female?
  
2. The sharks are fed three times a day. During the morning feeding,  $\frac{2}{15}$  of a ton of fish is fed. During the afternoon feeding, the weight of fish fed will be  $\frac{1}{15}$  of a ton more than the fish fed during the morning. If the total weight of fish fed in a day is  $\frac{1}{2}$  of a ton, how much is fed during the feeding at night?
  
3. A baby otter was born  $\frac{3}{4}$  of a month early. At birth, its weight was  $\frac{7}{8}$  kilograms, which is  $\frac{9}{10}$  kilogram less than the average weight of newborn otter in the aquarium. What is the average weight of newborn otter?



4. The penguin nursery is open two times a day:  $\frac{2}{3}$  hour at noon and  $\frac{5}{12}$  hour in the afternoon. How much time is the penguin nursery open every day?
5. Two kinds of fish can be found in a small tank that is  $5\frac{1}{7}$  feet long. The blue fish is  $\frac{2}{15}$  feet long and the orange fish is  $\frac{7}{10}$  feet long. How much longer is the orange fish?
6. An octopus weighed  $\frac{5}{6}$  kilograms. After two weeks, its weight was increased by  $\frac{3}{10}$  kilograms. But afterwards, it lost  $\frac{1}{5}$  kilograms in weight as it was sick. What is its current weight?

## Answers

1.  $1 - \frac{5}{8} = \frac{3}{8}$

$\frac{3}{8}$  of the staff are female.

2.  $\frac{1}{2} - \left(\frac{2}{15} + \frac{2}{15} + \frac{1}{15}\right) = \frac{1}{2} - \frac{5}{15} = \frac{15}{30} - \frac{10}{30} = \frac{5}{30} = \frac{1}{6}$

$\frac{1}{6}$  ton of fish is fed during the feeding at night.

3.  $\frac{7}{8} + \frac{9}{10} = 1\frac{31}{40}$

The average weight of newborn otter is  $1\frac{31}{40}$  kilograms.

4.  $\frac{2}{3} + \frac{5}{12} = 1\frac{1}{12}$

The penguin nursery opens  $1\frac{1}{12}$  hours.

5.  $\frac{7}{10} - \frac{2}{15} = \frac{17}{30}$

The orange fish is  $\frac{17}{30}$  feet longer than the blue fish.

6.  $\frac{5}{6} + \frac{3}{10} - \frac{1}{5} = \frac{14}{15}$

The current weight of the octopus is  $\frac{14}{15}$  kilograms.