Fraction word problems

Grade 5 Word Problems Worksheet

1. Jack spent $\frac{3}{4}$ of an hour biking and $\frac{5}{6}$ of an hour jogging. Afterwards, he swam for $\frac{1}{8}$ of an hour. How much time did Jack exercise before he went swimming?

2. To stay healthy, Emily decided to walk for $\frac{4}{5}$ mile every day. She walked $\frac{2}{5}$ mile to work and walked $\frac{1}{4}$ mile at lunchtime. How much more does she need to walk after dinner if she wants to meet her target distance?

3. Olivia is an athlete. During training this morning, she ran three laps. It took her $\frac{5}{6}$ minute to finish the first lap. The second lap took her $\frac{1}{12}$ more minutes than the first lap. The third lap took her $\frac{1}{10}$ less minutes than the second lap. How much time did it take her to finish the third lap?

4. Kyle is a basketball player. His bottle was full at the beginning of the game. At the end of the first quarter, he drank $\frac{5}{7}$ of the bottle. A coach filled up his bottle for him during the second quarter. At the end of second quarter, he drank some more water and left only $\frac{2}{5}$ of water in the bottle. How much water did he drink during the first half of the game?

5. Emma is a professional cyclist. For the past year, she has been practicing to ride as far as she can in a minute. At the beginning of the year, her personal record was $\frac{5}{6}$ of a kilometer in one minute. After six months, she improved her record by $\frac{1}{15}$ of a kilometer. After a year, she further improved her record by $\frac{1}{12}$ of a kilometer. What is her best record?

6. A football team was training for four hours. During the first hour, they practiced for $\frac{5}{8}$ of an hour. During the second hour, they practiced for $\frac{2}{3}$ of an hour. During the last two hours, they first practiced for $\frac{3}{5}$ of an hour, took a $\frac{1}{2}$ hour break and then practiced the rest of the time. How much time did they spend practicing in total?

Answers

1. $\frac{3}{4}+\frac{5}{6}=1\frac{7}{12}$
   Before he went swimming, he exercised for $1\frac{7}{12}$ hours.

2. $\frac{4}{5}-\frac{2}{5}-\frac{1}{4}=\frac{3}{20}$
   She needs to walk another $\frac{7}{20}$ of a mile to meet her target distance.

3. $\frac{5}{6}+\frac{1}{12}-\frac{1}{10}=\frac{49}{60}$
   It took her $\frac{49}{60}$ minute (or 49 seconds) to finish running the third lap.

4. $\frac{5}{7}+(1-\frac{2}{5})=1\frac{11}{35}$
   Kyle drank $1\frac{11}{35}$ bottle of water during the first half of the game.

5. $\frac{5}{6}+\frac{1}{15}+\frac{1}{12}=\frac{59}{60}$
   Her best record is $\frac{59}{60}$ kilometer in one minute.

6. $\frac{5}{8}+\frac{2}{3}+(2-\frac{1}{2})=2\frac{19}{24}$
   The team spent $2\frac{19}{24}$ hours practicing.