Fraction word problems

1. Oliver took $\frac{7}{10}$ hours to travel from his house to his office. After 8 hours of work, he travelled $\frac{3}{4}$ hours from his office to his house. How long altogether did Oliver travel on that day?

2. On the first week, the company accountant completed $\frac{2}{9}$ of the company's annual financial reports which needed to be finished within 3 weeks. During the second week, she completed another $\frac{2}{3}$ of the financial reports. What fraction of the financial reports did she finish during the first and second weeks? What fraction of the financial reports does she still need to finish in the third week?

3. Oliver gave an urgent task to his 2 assistants, Olivia, and Lucy. Olivia finished the task in $\frac{5}{6}$ hours. Lucy finished the same work in $\frac{6}{5}$ hours. Who worked longer? How many hours longer?

4. Oliver had an out-of-town company trip last week. Before the trip, he noticed that his car was $\frac{3}{4}$ full of gasoline. After the trip, the gas tank was $\frac{2}{9}$ full. What fraction of the gasoline in the car was used during the trip?

5. Oliver spent $\frac{1}{3}$ of his salary for food, $\frac{1}{6}$ for the water and electric bills and $\frac{1}{9}$ for other expenses. The rest went into his savings. What fraction of his salary is used for his expenses? What fraction of his salary went into his savings?

6. Mr. Silva owns $\frac{4}{5}$ of the stocks in the company where Oliver works. He wants to distribute his company stocks among his 3 children. He gave $\frac{3}{10}$ of the stocks to his eldest child and $\frac{1}{4}$ of the stocks to his youngest child. What part of the stocks will be given to the second child?

Answers

1. $\frac{7}{10} + \frac{3}{4} = \frac{14}{20} + \frac{15}{20} = \frac{29}{20}$ or $1\frac{9}{20}$ hours or 1 hour and 27 minutes

    Oliver travelled $1\frac{9}{20}$ hours that day.

2. $\frac{2}{9} + \frac{2}{3} = \frac{2}{9} + \frac{6}{9} = \frac{8}{9}$

    $\frac{8}{9}$ of the company's annual financial reports were completed in weeks 1 and 2.

    $\frac{9}{9}$ (One whole) $- \frac{8}{9} = \frac{1}{9}$

    The accountant still needs to complete $\frac{1}{9}$ of the company's annual financial reports during the third week.

3. $\frac{6}{5} > \frac{5}{6}$

    $\frac{6}{5} - \frac{5}{6} = \frac{36}{30} - \frac{25}{30} = \frac{11}{30}$ or 22 minutes

    Lucy worked $\frac{11}{30}$ hours longer than Olivia.

4. $\frac{3}{4} - \frac{2}{9} = \frac{27}{36} - \frac{8}{36} = \frac{19}{36}$

    $\frac{19}{36}$ of the gasoline was used.

5. $\frac{1}{3} + \frac{1}{6} + \frac{1}{9} = \frac{6}{18} + \frac{3}{18} + \frac{2}{18} = \frac{11}{18}$

    $\frac{11}{18}$ of his salary pays for his expenses.

    $\frac{18}{18}$ (One whole) $- \frac{11}{18} = \frac{7}{18}$

    $\frac{7}{18}$ of his salary went into his savings.

6. $\frac{4}{5} - (\frac{3}{10} + \frac{1}{4}) = \frac{4}{5} - \frac{11}{20} = \frac{16}{20} - \frac{11}{20} = \frac{5}{20}$ or $\frac{1}{4}$

    $\frac{1}{4}$ of the stocks will be given to his second child.