Fraction mixed operations word problems

Grade 5 Word Problems Worksheet

1. Ellen planned to interview some applicants for a position in her office. If she scheduled $\frac{1}{4}$ of an hour to meet each of them, how much time did she schedule for all 6 applicants?

2. Instead of $\frac{1}{4}$ of an hour, Ellen spent $\frac{1}{3}$ of an hour to meet each applicant. How much more time did she spend meeting all the applicants?

3. After the interview, Ellen decided to hire two of the applicants and reject the others. Ellen's assistant called back the applicants to tell them the result. She spent $\frac{1}{30}$ of an hour calling each of the rejected applicants and $\frac{1}{3}$ of an hour calling the hired applicants. How much time did the assistant spend making these calls?

4. Ethan is printing some materials for a meeting. If the printing of the first copy costs $1\frac{1}{2}$ dollars and other copies cost $\frac{4}{5}$ of a dollar each to print, how much will it cost if he is making 13 copies?

5. Ethan decides to type up some documents while waiting for the meeting to start. He can type 2 pages every $\frac{1}{8}$ hour. If the meeting started $\frac{3}{4}$ hour later than the scheduled time, how many pages can he type before the meeting starts?

6. Ethan is responsible to write the minutes for the meeting. During the meeting, he finished writing $\frac{1}{6}$ of the minutes. Before getting off work, he finished another $\frac{3}{8}$ of the minutes. How much of the minutes does Ethan still need to work on?

Answers

1. $\frac{1}{4} \times 6 = \frac{3}{2} = 1\frac{1}{2}$
   She scheduled $1\frac{1}{2}$ hours to meet 6 applicants.

2. $\left(\frac{1}{3} - \frac{1}{4}\right) \times 6 = \frac{1}{2}$
   She spent a $\frac{1}{2}$ hour more than the scheduled time.

3. $\frac{1}{30} \times 4 + \frac{1}{3} \times 2 = \frac{4}{5}$
   The assistant spent $\frac{4}{5}$ hours to make these calls.

4. $1\frac{1}{2} + \frac{4}{5} \times 12 = 11\frac{1}{10}$
   It costs $\$11\frac{1}{10}$ to make 13 copies.

5. $\frac{3}{4} \div \frac{1}{8} \times 2 = 12$
   He can type 12 pages of documents before the meeting starts.

6. $1 - \frac{1}{6} - \frac{3}{8} = \frac{11}{24}$
   Ethan still needs to work another $\frac{11}{24}$ of the minutes.