

Fraction mixed operations word problems

Grade 5 Word Problems Worksheet

1. In order to pass, Angelina must get $\frac{3}{4}$ of the items correct on a 60-item quiz in 5 subjects. How many items does she need to get correct in order to pass the quiz in each subject?

2. During the exam, the students are given $\frac{5}{6}$ of an hour to complete the test for each subject. If Angelina finished the first subject in $\frac{2}{3}$ of an hour, how much more time does she have left before starting the second subject? How long is the examination time for all 5 subjects altogether?

3. Catherine is reading a novel that has 400 pages. She read $\frac{1}{5}$ of the total number of pages yesterday and $\frac{3}{10}$ of the total number of pages today. How many more pages does she need to read to finish the novel?



4. Aida works as a teacher's aide for Mr. Jordan. She spent $8\frac{1}{3}$ hours assisting Mr. Jordan, including her lunch break. If her lunch was only $\frac{11}{12}$ of an hour, how much time did she spend assisting teacher Jordan?

5. There are $\frac{1}{4}$ more grade 6 than grade 5 pupils where Mr. Jordan works. If there are 248 students in grade 5, how many grade 6 pupils are there in the school?

6. Mr. Carlo spent $2\frac{1}{4}$ hours checking the test papers of his 54 students from 2 sections in his mathematics course. In minutes, how much time did he spend checking each test paper?

Answers

- $60 \times \frac{3}{4} = 45$
Angelina should score at least 45 points in each subject.
- $\frac{5}{6} - \frac{2}{3} = \frac{1}{6}$
She has $\frac{1}{6}$ of an hour left before taking the next subject.
 $\frac{5}{6} \times 5 = 4 \frac{1}{6}$
Altogether, the exam time is $4 \frac{1}{6}$ hours for five subjects.
- $400 \times \frac{1}{5} = 80$ pages completed yesterday
 $400 \times \frac{3}{10} = 120$ pages completed today
 $400 - (80 + 120) = 400 - 200 = 200$
She needs to read 200 more pages to finish the novel.
- $8 \frac{1}{3} - \frac{11}{12} = \frac{25}{3} - \frac{11}{12} = \frac{100-11}{12} = \frac{89}{12} = 7 \frac{5}{12}$
Aida spent $7 \frac{5}{12}$ hours assisting Mr. Jordan.
- $248 \times \frac{1}{4} = 62$
 $248 + 62 = 310$
There are 310 students in grade 6.
- $2 \frac{1}{4} = \frac{9}{4}$ hours spent checking
 $\frac{9}{4} \div 54 = \frac{1}{24}$ hour
 $\frac{1}{24} \times 60 = 2 \frac{1}{2}$ minutes
Mr. Carlo spent $2 \frac{1}{2}$ minutes checking each test paper.