Homework Review

Evaluate each expression. Give your answer in simplest form.

1. \(\frac{1}{2} + \left(\frac{-5}{6}\right) + \frac{1}{3}\)
2. \(-\frac{6}{7} + \frac{3}{14} = \frac{-9}{14}\)
3. \(-\frac{1}{7} + \left(\frac{-3}{5}\right) = \frac{-26}{35}\)
4. \(\frac{1}{2} + \left(\frac{-2}{5}\right) + \frac{1}{4} = \frac{7}{20}\)
5. \(-\frac{1}{7} + \left(\frac{-5}{6}\right) + \left(\frac{-1}{3}\right) = \frac{-13}{42}\)
6. \(\frac{3}{5} - \frac{2}{3} = \frac{-1}{15}\)
7. \(-\frac{1}{7} - \frac{3}{14} = \frac{-5}{14}\)
8. \(-\frac{1}{5} - \left(\frac{-2}{7}\right) = \frac{3}{35}\)
9. \(\frac{1}{3} - \left(\frac{-2}{5}\right) = \frac{-1}{60}\)

or \(-\frac{55}{42}\)

Solve. Show your work.

33. David biked \(15\frac{9}{10}\) miles on Saturday and \(6\frac{7}{10}\) miles on Sunday. How much farther did David bike on Saturday than on Sunday? \(9\frac{1}{5}\) mi.

34. A recipe calls for \(\frac{3}{4}\) cup of flour, but Kelli has only \(\frac{1}{3}\) cup of flour. How much more flour does she need? \(\frac{5}{12}\) c

35. A weather report showed that the rainfall in Janesville was \(2\frac{2}{3}\) inches during the first half of January. At the end of January, the total rainfall was \(3\frac{1}{4}\) inches. How much did it rain in the second half of January? \(\frac{7}{12}\) in.

36. The sum of two rational numbers is \(5\frac{1}{2}\). If one of the numbers is \(6\frac{3}{14}\), find the other number. \(-\frac{5}{7}\)