

Palomar College Math Placement Test Study Guide
Prealgebra Topics

Topic 4: Operations with Fractions

1. $\frac{3}{4} + \frac{5}{6} =$

2. $\frac{7}{9} - \frac{2}{9} =$

3. $2\frac{1}{3} \times 3\frac{3}{4} =$

4. $6 \div \frac{1}{3} =$

5. $\frac{5}{8} - \frac{4}{5} =$

6. $\frac{5}{6} + \left(\frac{4}{5} \div \frac{3}{4}\right) - \left(\frac{2}{3} \times \frac{1}{2}\right) =$

7. What is the reciprocal of -3?

8. If $\frac{3}{4} - \frac{2}{3} + \frac{1}{2}$ is calculated and the answer reduced to simplest form, what is the denominator of the resulting fraction?

9. Liam is working on three different projects at work. If he allots $\frac{1}{3}$ of his time to one project and $\frac{1}{5}$ of his time to the second project, what part of his time can he spend working on the remaining project?

10. A measuring cup contains $\frac{3}{8}$ cup of flour. The recipe calls for $2\frac{1}{4}$ cups of flour. How much more flour is needed for the recipe?

11. Four pieces of ribbon are cut from a length of ribbon that is 60 feet long. One of the pieces is 12 feet long. Two of the pieces are $6\frac{1}{2}$ feet long. The fourth piece is $9\frac{1}{4}$ feet long. How many feet of ribbon are left from the original length?

Answers are on the next page.

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Answers:

1. $1\frac{7}{12}$

2. $\frac{5}{9}$

3. $8\frac{3}{4}$

4. 18

5. $\frac{-7}{40}$

6. $1\frac{17}{30}$

7. $-\frac{1}{3}$

8. 12

9. Liam can spend $\frac{7}{15}$ of his time working on the remaining project.

10. $1\frac{7}{8}$ cups of flour is needed.

11. $25\frac{3}{4}$ feet of ribbon are left.