Name: _____ Date: _____

TEST PREP

3 Fractions and Mixed Numbers

25

Suggested Time: 30 min

Multiple Choice

(5 × 2 points = 10 points)

Fill in the circle next to the correct answer.

1. Which fraction has the same value as $\frac{3}{5} + \frac{1}{3}$?

Ⓐ $\frac{2}{15}$ Ⓑ $\frac{4}{15}$ Ⓒ $\frac{1}{2}$ Ⓓ $\frac{14}{15}$

2. What is the value of $\frac{7}{10} - \frac{3}{6}$?

Ⓐ $\frac{1}{15}$ Ⓑ $\frac{2}{15}$ Ⓒ $\frac{1}{5}$ Ⓓ 1

3. What is 25 ÷ 7 expressed as a mixed number?

Ⓐ $3\frac{4}{7}$ Ⓑ $\frac{25}{7}$ Ⓒ $2\frac{5}{7}$ Ⓓ $5\frac{2}{7}$

4. Which fraction has the same value as 0.65?

Ⓐ $\frac{65}{10}$ Ⓑ $\frac{65}{50}$ Ⓒ $\frac{13}{20}$ Ⓓ $\frac{26}{50}$

5. Mrs. Olive used $1\frac{2}{5}$ quarts of syrup and $5\frac{3}{10}$ quarts of water to make lemonade.

How many quarts of lemonade did she make?

Ⓐ $6\frac{1}{2}$ Ⓑ $6\frac{7}{10}$ Ⓒ $7\frac{1}{2}$ Ⓓ 8

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Short Answer

(5 × 2 points = 10 points)

Add or subtract. Express each sum or difference in simplest form.

6. **a.** $2\frac{3}{4} + 3\frac{2}{5}$ **b.** $3\frac{1}{2} - 1\frac{7}{8}$

Estimate each sum or difference by using benchmarks.

7. **a.** $\frac{1}{4} + \frac{7}{12} + \frac{2}{3}$ **b.** $\frac{4}{5} - \frac{3}{7}$

Solve. Show your work.

8. Gail baked some cookies. She sold $\frac{2}{7}$ of the cookies on Monday. She sold $\frac{1}{3}$ more of the cookies on Tuesday than on Monday. What fraction of the cookies did Gail sell on the two days?

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Solve. Show your work.

9. Katie has a roll of ribbon that is 8 feet long. She cuts off 3 feet of ribbon and the remaining length is cut into 8 shorter pieces of equal length. What is the length of each shorter piece of ribbon?

10. An organic farm uses $\frac{3}{7}$ of the land to grow potatoes and $\frac{2}{5}$ of the land to grow spinach. The remaining land is used to grow tomato plants. What fraction of the land is used to grow tomato plants?

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Extended Response

(Question 11: 2 points, Question 12: 3 points)

Solve. Show your work.

11. Jenny uses $\frac{7}{9}$ gallon of water to water roses.
She uses $\frac{1}{4}$ gallon less water to water herbs.
How much water does Jenny use to water the roses and herbs?

12. Julian and Stacey needed 10 liters of water to fill a tank. Stacey filled the tank with $3\frac{11}{12}$ liters of water. Julian poured $1\frac{2}{5}$ liters less than Stacey into the tank.
How much more water is still needed to fill the tank?