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?

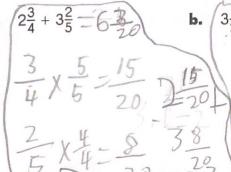   Ⓐ $6\frac{1}{2}$ Ⓑ $6\frac{7}{10}$ Ⓒ $7\frac{1}{2}$ Ⓓ 8

Name: _LOZ_ Date: _11-4-20_

Short Answer (5 × 2 points = 10 points)

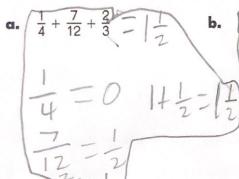**Add or subtract. Express each sum or difference in simplest form.**

6. a. $2\frac{3}{4} + 3\frac{2}{5} = 6\frac{3}{20}$

$\frac{3}{4} \times \frac{5}{5} = \frac{15}{20}$ $\frac{15}{20}$

$\frac{2}{5} \times \frac{4}{4} = \frac{8}{20}$ $\frac{38}{20} = 5\frac{3}{20}$

b. $3\frac{1}{2} - 1\frac{7}{8} =$

$3\frac{4}{8} \frac{8}{8} \frac{7}{8}$ $1\frac{2}{8} = 1\frac{5}{8}$

$\frac{12}{8}$

$\frac{1}{2} = \frac{4}{8}$

Estimate each sum or difference by using benchmarks.

7. a. $\frac{1}{4} + \frac{7}{12} + \frac{2}{3} = 1\frac{1}{2}$

$\frac{1}{4} = 0$ $1 + \frac{1}{2} = 1\frac{1}{2}$

$\frac{7}{12} = \frac{1}{2}$

b. $\frac{4}{5} - \frac{3}{7} = \frac{1}{2}$

$\frac{4}{5} = 1$

$\frac{3}{7} = \frac{1}{2}$

$1 - \frac{1}{2} = \frac{1}{2}$

Solve. Show your work.

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

Gail Sold $\frac{2}{7} \times \frac{1}{3} = \frac{2}{21}$ $\frac{8}{21} + \frac{6}{21} =$

$\frac{2}{3}$ Muffins

$\frac{2}{7} + \frac{2}{21} = \frac{8}{21}$ $9\frac{14}{21} = \frac{2}{3}$

in two days. $\frac{7 \downarrow 6}{21} + 2\frac{1}{21}$

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Problem Solving

Solve. Show your work.

9. Ron used $\frac{3}{5}$ pound of flour to bake bread and $\frac{2}{7}$ pound of flour to bake scones. How many more pounds of flour did he use to bake bread than scones?

Ron baked $\frac{3}{5} \times \frac{7}{7} = \frac{21}{35}$ $\frac{21}{35} - \frac{10}{35}$

$\frac{11}{35}$ more

$\frac{2}{7} \times \frac{5}{5} = \frac{10}{35}$ = $\boxed{\frac{11}{35}}$

bread then

scones.

10. Tina uses $4\frac{5}{12}$ yards of wire for her science project. Kelvin uses $1\frac{2}{3}$ yards of wire for his project. How many yards of wire do they use altogether?

$$\frac{2}{3} \times \frac{4}{4} = \frac{8}{12}$$

$$4\frac{5}{12} + 1\frac{8}{12} = 6\frac{1}{12}$$

They have $6\frac{1}{12}$ yards of wire altogether.