Name _____

Common Denominators and Equivalent Fractions

COMMON CORE STANDARD—5.NF.1
Use equivalent fractions as a strategy to add and subtract fractions.

Use a common denominator to write an equivalent fraction for each fraction.

1. $\frac{1}{5}, \frac{1}{2}$ common denominator: 10

Think: 10 is a multiple of 5 and 2. Find equivalent fractions with a denominator of 10.

2. $\frac{1}{4}, \frac{2}{3}$ common denominator: _____

3. $\frac{5}{6}, \frac{1}{3}$ common denominator: _____

4. $\frac{3}{5}, \frac{1}{3}$ common denominator: _____

5. $\frac{1}{2}, \frac{3}{8}$ common denominator: _____

6. $\frac{1}{6}, \frac{1}{4}$ common denominator: _____

Use the least common denominator to write an equivalent fraction for each fraction.

7. $\frac{5}{6}, \frac{2}{9}$

8. $\frac{1}{12}, \frac{3}{8}$

9. $\frac{5}{9}, \frac{2}{15}$

Problem Solving Real World

10. Ella spends $\frac{2}{3}$ hour practicing the piano each day. She also spends $\frac{1}{2}$ hour jogging. What is the least common denominator of the fractions?

11. In a science experiment, a plant grew $\frac{3}{4}$ inch one week and $\frac{1}{2}$ inch the next week. Use a common denominator to write an equivalent fraction for each fraction.

Name _____

Add and Subtract Fractions

COMMON CORE STANDARD—5.NF.1
Use equivalent fractions as a strategy to add and subtract fractions.

Find the sum or difference. Write your answer in simplest form.

1. $\frac{1}{2}-\frac{1}{7}$

$$\frac{1}{2}\rightarrow\frac{7}{14}$$
$$-\frac{1}{7}\rightarrow-\frac{2}{14}$$
$$\frac{5}{14}$$

2. $\frac{7}{10}-\frac{1}{2}$ _____

3. $\frac{1}{6}+\frac{1}{2}$ _____

4. $\frac{5}{8}+\frac{2}{5}$ _____

5. $\frac{9}{10}-\frac{1}{3}$ _____

6. $\frac{3}{4}-\frac{2}{5}$ _____

7. $\frac{5}{7}-\frac{1}{4}$ _____

8. $\frac{7}{8}+\frac{1}{3}$ _____

9. $\frac{5}{6}+\frac{2}{5}$ _____

10. $\frac{1}{6}-\frac{1}{10}$ _____

11. $\frac{6}{11}-\frac{1}{2}$ _____

12. $\frac{5}{6}+\frac{3}{7}$ _____

Problem Solving Real World

13. Kaylin mixed two liquids for a science experiment. One container held $\frac{7}{8}$ cup and the other held $\frac{9}{10}$ cup. What is the total amount of the mixture?

_____

14. Henry bought $\frac{1}{4}$ pound of screws and $\frac{2}{5}$ pound of nails to build a skateboard ramp. What is the total weight of the screws and nails?

_____

Name _____

Add and Subtract Mixed Numbers

COMMON CORE STANDARD—5.NF.1
Use equivalent fractions as a strategy to add and subtract fractions.

Find the sum or difference. Write your answer in simplest form.

1. $3\frac{1}{2} - 1\frac{1}{5}$

$3\frac{1}{2} \rightarrow 3\frac{5}{10}$

$-1\frac{1}{5} \rightarrow -1\frac{2}{10}$

$2\frac{3}{10}$

_____

2. $2\frac{1}{3} + 1\frac{3}{4}$ _____

3. $4\frac{1}{8} + 2\frac{1}{3}$ _____

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

5. $2\frac{1}{4} + 1\frac{2}{5}$ _____

6. $5\frac{17}{18} - 2\frac{2}{3}$ _____

7. $6\frac{3}{4} - 1\frac{5}{8}$ _____

8. $5\frac{3}{7} - 2\frac{1}{5}$ _____

9. $4\frac{1}{8} + 2\frac{5}{12}$ _____

10. $6\frac{6}{7} - 2\frac{3}{4}$ _____

11. $5\frac{5}{6} - 2\frac{3}{4}$ _____

12. $2\frac{6}{25} - 1\frac{1}{10}$ _____

Problem Solving Real World

13. Jacobi bought $7\frac{1}{2}$ pounds of meatballs. He decided to cook $1\frac{1}{4}$ pounds and freeze the rest. How many pounds did he freeze?

_____

14. Jill walked $8\frac{1}{8}$ miles to a park and then $7\frac{2}{5}$ miles home. How many miles did she walk?

_____

Name _____

Subtraction with Renaming

COMMON CORE STANDARD—5.NF.1
Use equivalent fractions as a strategy to add and subtract fractions.

Estimate. Then find the difference and write it in simplest form.

1. Estimate: _____

$6\frac{1}{3} - 1\frac{2}{5}$

$6\frac{1}{3} \rightarrow 6\frac{5}{15}$

$-1\frac{2}{5} \rightarrow -1\frac{6}{15}$

$4\frac{14}{15}$

2. Estimate: _____

$4\frac{1}{2} - 3\frac{5}{6}$

3. Estimate: _____

$9 - 3\frac{7}{8}$

4. Estimate: _____

$2\frac{1}{6} - 1\frac{2}{7}$

5. Estimate: _____

$8 - 6\frac{1}{9}$

6. Estimate: _____

$9\frac{1}{4} - 3\frac{2}{3}$

7. Estimate: _____

$2\frac{1}{8} - 1\frac{2}{7}$

8. Estimate: _____

$8\frac{1}{5} - 3\frac{5}{9}$

9. Estimate: _____

$10\frac{2}{3} - 5\frac{9}{10}$

Problem Solving Real World

10. Carlene bought $8\frac{1}{16}$ yards of ribbon to decorate a shirt. She only used $5\frac{1}{2}$ yards. How much ribbon does she have left over?

_____

11. During his first vet visit, Pedro's puppy weighed $6\frac{1}{8}$ pounds. On his second visit, he weighed $9\frac{1}{16}$ pounds. How much weight did he gain between visits?

_____