Name Key Date

Score :

Standard : 5.NF.1

Adding & Subtracting Fractions Mini Assessment

1) Find the LCD of the given fractions. $\frac{4}{5}$ and $\frac{1}{3}$

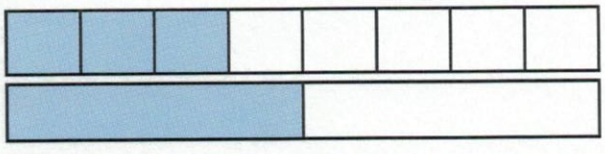
LCD = 15

2) Find the LCD of the given fractions. $\frac{7}{9}$ and $\frac{1}{7}$

LCD = 63

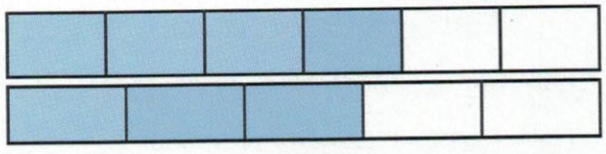
3) Write the problem represented by the fraction strips.

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



4) Write the problem represented by the fraction strips.

$\frac{3}{5} + \frac{4}{6} = \frac{18}{30} + \frac{20}{30} = \frac{38}{30} = 1\frac{4}{15}$



5) Solve. $\frac{2}{5} + \frac{2}{3}$

$\frac{6}{15} + \frac{10}{15} = \frac{16}{15} = 1\frac{1}{15}$

6) Solve. $\frac{5}{6} - \frac{1}{2}$

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

7) Kailyn walked $\frac{11}{16}$ of a mile on Friday and $\frac{1}{2}$ mile on Saturday. How much further did she walk on Friday?

$\frac{11}{16} - \frac{1}{2} = \frac{11}{16} - \frac{8}{16} = \frac{3}{16}$

8) Maggie read $\frac{5}{9}$ of her book on Monday and $\frac{1}{3}$ of her book on Tuesday. How much did she read altogether?

$\frac{5}{9} + \frac{1}{3} = \frac{5}{9} + \frac{3}{9} = \frac{8}{9}$

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Name Key Date one

Adding Mixed Numbers Warm Up

Skill : Adding fractions with unlike denominators.

1) Find the sum.

$$\frac{10}{12}+\frac{4}{6}$$

$\frac{10}{12}+\frac{8}{12}=\frac{18}{12}=1\frac{6}{12}$

$1\frac{1}{2}$

2) Find the sum.

$$\frac{1}{3}+\frac{4}{5}$$

$\frac{5}{15}+\frac{12}{15}=\frac{17}{15}$

$1\frac{2}{15}$

3) Find the sum.

$$\frac{4}{5}+\frac{2}{4}$$

$\frac{8}{20}+\frac{10}{20}=\frac{18}{20}$

$\frac{9}{10}$

4) Find the sum.

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

$\frac{4}{8}+\frac{7}{8}=\frac{11}{8}$

$1\frac{3}{8}$

5) Find the sum.

$$\frac{3}{10}+\frac{1}{2}$$

$\frac{3}{10}+\frac{5}{10}=\frac{8}{10}$

$\frac{4}{5}$

6) Find the sum.

$$\frac{3}{2}+\frac{2}{3}$$

$\frac{9}{6}+\frac{4}{6}$

$\frac{13}{6}=2\frac{1}{6}$

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Name Key Date two

Adding Mixed Numbers Warm Up

Skill : Subtracting fractions with unlike denominators.

1) Find the difference.

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

$\frac{8}{12} - \frac{3}{12}$

$\frac{5}{12}$

2) Find the difference.

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

$\frac{12}{15} - \frac{5}{15}$

$\frac{7}{15}$

3) Find the difference.

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

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

$\frac{3}{10}$

4) Find the difference.

$$\frac{11}{12} - \frac{1}{8}$$

$\frac{22}{24} - \frac{3}{24}$

$\frac{19}{24}$

5) Find the difference.

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

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

$\frac{1}{6}$

6) Find the difference.

$$\frac{7}{10} - \frac{1}{4}$$

$\frac{14}{20} - \frac{5}{20}$

$\frac{9}{20}$

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Name Key Date three

Adding Mixed Numbers Warm Up

Skill : Adding mixed numbers.

1) Find the sum.

$$\frac{1}{12}+6\frac{3}{4}$$

$\frac{1}{12}+\frac{9}{12}=\frac{10}{12}=\frac{5}{6}$

$6+\frac{5}{6}=6\frac{5}{6}$

2) Find the sum.

$$2\frac{1}{5}+4\frac{3}{4}$$

$\frac{4}{20}+\frac{15}{20}=\frac{19}{20}$

$2+4+\frac{19}{20}$

$6\frac{19}{20}$

3) Find the sum.

$$1\frac{1}{10}+1\frac{2}{3}$$

$\frac{3}{30}+\frac{20}{30}=\frac{23}{30}$

$1+1+\frac{23}{30}$

$2\frac{23}{30}$

4) Find the sum.

$$3\frac{1}{2}+\frac{4}{5}$$

$\frac{5}{10}+\frac{8}{10}=\frac{13}{10}=1\frac{3}{10}$

$3+1\frac{3}{10}=4\frac{3}{10}$

5) Find the sum.

$$1\frac{1}{6}+3\frac{3}{4}$$

$\frac{2}{12}+\frac{9}{12}=\frac{11}{12}$

$1+3+\frac{11}{12}=4\frac{11}{12}$

6) Find the sum.

$$2\frac{1}{3}+8\frac{1}{8}$$

$\frac{8}{24}+\frac{3}{24}=\frac{11}{24}$

$2+8+\frac{11}{24}=10\frac{11}{24}$

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Name Key Date four

Adding Mixed Numbers Warm Up

Skill : Adding mixed numbers.

1) Find the sum.

$$1\frac{4}{5}+4\frac{3}{10}$$

$\frac{8}{10}+\frac{3}{10}=\frac{11}{10}=1\frac{1}{10}$

$1+4+1\frac{1}{10}=6\frac{1}{10}$

2) Find the sum.

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

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

$2+3+\frac{5}{6}=5\frac{5}{6}$

3) Find the sum.

$$3\frac{4}{5}+3\frac{1}{9}$$

$\frac{36}{45}+\frac{5}{45}=\frac{41}{45}$

$3+3+\frac{41}{45}=6\frac{41}{45}$

4) Find the sum.

$$5\frac{4}{6}+1\frac{1}{5}$$

$\frac{20}{30}+\frac{6}{30}=\frac{26}{30}=\frac{13}{15}$

$5+1+\frac{13}{15}=6\frac{13}{15}$

5) Find the sum.

$$4\frac{1}{3}+12\frac{1}{4}$$

$\frac{4}{12}+\frac{3}{12}=\frac{7}{12}$

$4+12+\frac{7}{12}=16\frac{7}{12}$

6) Find the sum.

$$5\frac{11}{12}+1\frac{1}{8}$$

$\frac{22}{24}+\frac{3}{24}=\frac{25}{24}=1\frac{1}{24}$

$5+1+1\frac{1}{24}=7\frac{1}{24}$

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Name Key Date

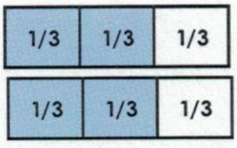
Adding Mixed Numbers Notes

Big Idea :
- Adding mixed numbers will require you to first understand how to re-write fractions with common denominators.

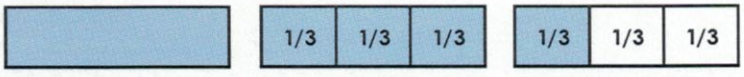
Key Words :
- Common Denominator
- Improper Fraction
- Mixed Number

Explore : How can fraction strips help you add mixed numbers?

- The fraction strips to the right show $1\frac{2}{3}+\frac{2}{3}$.



  - Combine the 1/3 strips.



  - Observe that there are now two full strips and one-third leftover.

$$1\frac{2}{3}+\frac{2}{3}=1\frac{4}{3}=2\frac{1}{3}$$

Is adding mixed numbers the same as adding fractions?
- Yes! You follow the same steps.
  1. Write equivalent fractions using the least common denominator.
  2. Add the fractions.
  3. {This step is new!} Add the whole numbers.
  4. Simplify if necessary.

Explore :
Use the recipe card to answer the questions.

1. How many pounds of oranges and melon are there in the recipe?

$1\frac{2}{3}+1\frac{3}{4}$ $\quad 1+1+1\frac{1}{6}=3\frac{1}{6}$

$\frac{8}{12}+\frac{6}{12}=\frac{14}{12}=1\frac{2}{12}=1\frac{1}{6}$

2. How many pounds of grapes and berries are there in the recipe?

$2\frac{1}{8}+3\frac{1}{2}$ $\quad 5\frac{5}{8}$

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

$2+3+\frac{5}{8}$

Frank's Fruit Salad

$1\frac{2}{3}$ *lbs. oranges*

$2\frac{1}{8}$ *lbs. grapes*

$3\frac{1}{2}$ *lbs. berries*

$1\frac{2}{4}$ *lbs. melon*



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Name Key Date Score :

Adding Mixed Numbers PRACTICE

Adding Fractions:

1. $\frac{3}{4}+\frac{4}{9}$

$\frac{27}{36}+\frac{16}{36}$

$\frac{43}{36}=1\frac{7}{36}$

2. $\frac{3}{5}+\frac{8}{10}$

$\frac{6}{10}+\frac{8}{10}$

$\frac{14}{10}=1\frac{4}{10}=1\frac{2}{5}$

3. $\frac{2}{3}+\frac{3}{5}$

$\frac{10}{15}+\frac{9}{15}$

$\frac{19}{15}=1\frac{4}{15}$

Adding Mixed Numbers:

4. $7\frac{1}{3}+5\frac{7}{10}$

$\frac{10}{30}+\frac{21}{30}=\frac{31}{30}=1\frac{1}{30}$

$7+5+1\frac{1}{30}$

$13\frac{1}{30}$

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

$\frac{5}{20}+\frac{16}{20}=\frac{21}{20}=1\frac{1}{20}$

$2+5+1\frac{1}{20}$

$8\frac{1}{20}$

6. $3\frac{2}{3}+4\frac{1}{2}$

$\frac{4}{6}+\frac{3}{6}=\frac{7}{6}=1\frac{1}{6}$

$3+4+1\frac{1}{6}$

$8\frac{1}{6}$

Addition of Fractions Word Problems:

7. Julia ate $2\frac{3}{5}$ of a candy bar. Emma ate $\frac{13}{15}$ of a candy bar. How many candy bars did they eat all together?

$2\frac{3}{5}+\frac{13}{15}$

$\frac{9}{15}+\frac{13}{15}=\frac{22}{15}=1\frac{7}{15}$

$2+1\frac{7}{15}=3\frac{7}{15}$

8. Alessandra made three different types of pie. She used $3\frac{1}{4}$ cups of sugar in the first recipe, $2\frac{2}{3}$ cups in the second and $1\frac{11}{12}$ cups in the third. How many cups of sugar did Alessandra use all together?

$3\frac{1}{4}+2\frac{2}{3}+1\frac{11}{12}$

$\frac{3}{12}+\frac{8}{12}+\frac{11}{12}=\frac{22}{12}=1\frac{10}{12}=1\frac{5}{6}$

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

$7\frac{5}{6}$

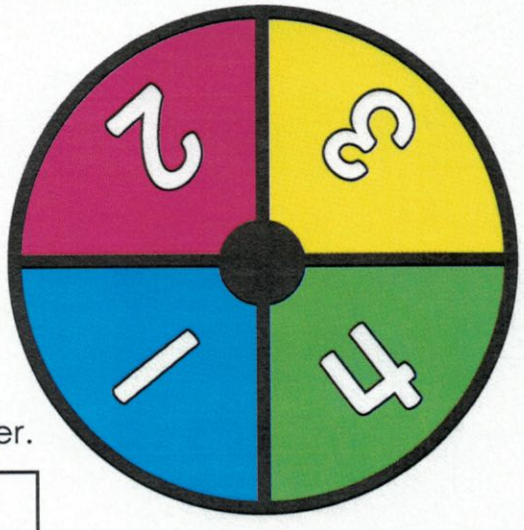
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Partners : Answers & _____

Score :

Adding Mixed Numbers
PARTNER PRACTICE

Directions: Each partner will spin the spinner once. The number each partner lands on will identify which mixed numbers will be added together. If each partner spins and lands on the same number, that's ok! That mixed number can just be added to itself.



Record the mixed numbers and sums in the table on this page.

For Example : Partner one spins a 2 and partner two spins a 3. Mixed numbers 2 and 3 will be added together.

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

Mixed #	+	Mixed #	=	Sum
$2\frac{1}{2}$	+	$6\frac{3}{5}$	=	$9\frac{1}{10}$
$3\frac{3}{4}$	+	$1\frac{1}{3}$	=	$5\frac{1}{12}$
$2\frac{1}{2}$	+	$3\frac{3}{4}$	=	$6\frac{1}{4}$
$6\frac{3}{5}$	+	$1\frac{1}{3}$	=	$7\frac{14}{15}$
$2\frac{1}{2}$	+	$1\frac{1}{3}$	=	$3\frac{5}{6}$
$6\frac{3}{5}$	+	$3\frac{3}{4}$	=	$10\frac{7}{20}$

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