RUSLI PREP
TEST PREP & TUTORING

FREE PRACTICE PACKET · GRADE 5

Adding & Subtracting Fractions

With unlike denominators, mixed numbers and word problems

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Tips for parents

Work on one part a day, 10 to 15 minutes at a time. When your child gets stuck, ask: *"What number can both denominators go into?"* instead of giving the answer. Check work together with the answer key and celebrate the ones they got right first.

Made by Tim Rusli, Math & Physics Tutor in Union, NJ · Aligned to NJ Student Learning Standards 5.NF.A.1 and 5.NF.A.2

Name _____ Date _____

Part A · Warm-up

Equivalent fractions name the same amount. Multiply the top and bottom by the same number.

Example $\frac{2}{3} = \frac{?}{12}$ 3 × **4** = 12, so 2 × **4** = 8. Answer: $\frac{2}{3} = \frac{8}{12}$

Fill in the missing number.

1. $\frac{1}{2} = \frac{\square}{8}$

2. $\frac{2}{3} = \frac{\square}{12}$

3. $\frac{3}{4} = \frac{\square}{20}$

4. $\frac{5}{6} = \frac{\square}{18}$

Find the least common denominator (LCD): the smallest number both denominators go into.

5. $\frac{1}{4}$ and $\frac{1}{6}$ → LCD = _____

6. $\frac{2}{3}$ and $\frac{3}{5}$ → LCD = _____

7. $\frac{1}{2}$ and $\frac{3}{8}$ → LCD = _____

8. $\frac{5}{6}$ and $\frac{4}{9}$ → LCD = _____

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Name _____ Date _____

Part B · Add and subtract

Rename both fractions with a common denominator, then add or subtract the tops. Simplify your answer.

Example $\frac{1}{2} + \frac{1}{3} \rightarrow$ LCD is 6 $\rightarrow \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

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

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

3. $\frac{3}{5} + \frac{1}{10} =$

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

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

6. $\frac{5}{6} - \frac{1}{4} =$

7. $\frac{2}{5} + \frac{1}{3} =$

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

9. $\frac{3}{4} + \frac{2}{3} =$

10. $\frac{5}{6} + \frac{3}{8} =$

11. $1\ \frac{1}{2} + 2\ \frac{1}{3} =$

12. $3\ \frac{3}{4} - 1\ \frac{1}{6} =$

Problems 9 to 12: if your answer is more than 1, write it as a mixed number.

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Name _____ Date _____

Part C · Word problems

Read carefully: does the story put amounts together (add) or find what's left or the difference (subtract)?

1. Maya walked $\frac{3}{4}$ mile to the library and then $\frac{1}{3}$ mile to the park. How far did she walk in all?

   Answer: _____

2. A recipe needs $\frac{2}{3}$ cup of flour. Sam has $\frac{1}{2}$ cup. How much more flour does he need?

   Answer: _____

3. Jordan read $\frac{1}{4}$ of his book on Monday and $\frac{2}{5}$ of it on Tuesday. What fraction of the book has he read so far?

   What fraction of the book is left to read? _____

   Answer: _____

4. A ribbon is $5\frac{1}{2}$ feet long. Ava cuts off $2\frac{3}{4}$ feet for a bow. How much ribbon is left?

   Answer: _____

5. Leo says $\frac{1}{2} + \frac{1}{3} = \frac{2}{5}$. Is he right? Explain how you know.

Challenge Find the sum: $\frac{1}{2} + \frac{1}{3} + \frac{1}{6} = ?$ Hint: try a denominator of 6.

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Answer key

Answers are in simplest form. Equivalent forms (like $\frac{13}{12}$ for $1\frac{1}{12}$) are also correct.

Part A

A1	$\frac{1}{2} = \frac{4}{8}$
A2	$\frac{2}{3} = \frac{8}{12}$
A3	$\frac{3}{4} = \frac{15}{20}$
A4	$\frac{5}{6} = \frac{15}{18}$
A5	LCD = 12
A6	LCD = 15
A7	LCD = 8
A8	LCD = 18

Part C

C1	$\mathbf{1\frac{1}{12}}$ mile
C2	$\mathbf{\frac{1}{6}}$ cup
C3	$\mathbf{\frac{13}{20}}$ of the book Left to read: $\mathbf{\frac{7}{20}}$
C4	$\mathbf{2\frac{3}{4}}$ feet
C5	No. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$. Leo added the tops and the bottoms. A quick check: $\frac{2}{5}$ is less than $\frac{1}{2}$, so it can't be the answer.
★	$\frac{3}{6} + \frac{2}{6} + \frac{1}{6} = \frac{6}{6} = \mathbf{1}$

Part B

B1	$\frac{1}{2} + \frac{1}{4} = \mathbf{\frac{3}{4}}$
B2	$\frac{2}{3} + \frac{1}{6} = \mathbf{\frac{5}{6}}$
B3	$\frac{3}{5} + \frac{1}{10} = \mathbf{\frac{7}{10}}$
B4	$\frac{1}{3} + \frac{1}{4} = \mathbf{\frac{7}{12}}$
B5	$\frac{3}{4} - \frac{1}{3} = \mathbf{\frac{5}{12}}$
B6	$\frac{5}{6} - \frac{1}{4} = \mathbf{\frac{7}{12}}$
B7	$\frac{2}{5} + \frac{1}{3} = \mathbf{\frac{11}{15}}$
B8	$\frac{7}{8} - \frac{1}{2} = \mathbf{\frac{3}{8}}$
B9	$\frac{3}{4} + \frac{2}{3} = \mathbf{1\frac{5}{12}}$
B10	$\frac{5}{6} + \frac{3}{8} = \mathbf{1\frac{5}{24}}$
B11	$1\frac{1}{2} + 2\frac{1}{3} = \mathbf{3\frac{5}{6}}$
B12	$3\frac{3}{4} - 1\frac{1}{6} = \mathbf{2\frac{7}{12}}$

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NEED A LITTLE MORE HELP?

One-on-one tutoring with Tim Rusli

I'm a Math and Physics tutor in Union, NJ with a Bachelor's in Applied Mathematics from Rutgers. I break hard problems into small, clear steps so students build real confidence, from elementary math to SAT Math, Calculus and Physics.

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