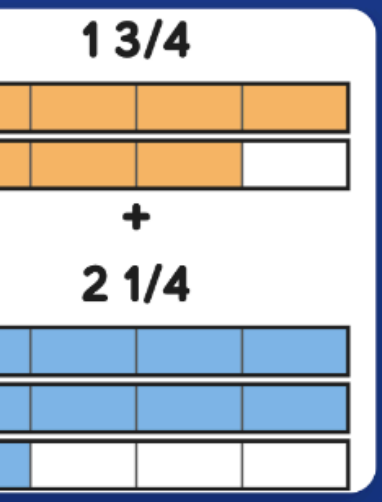
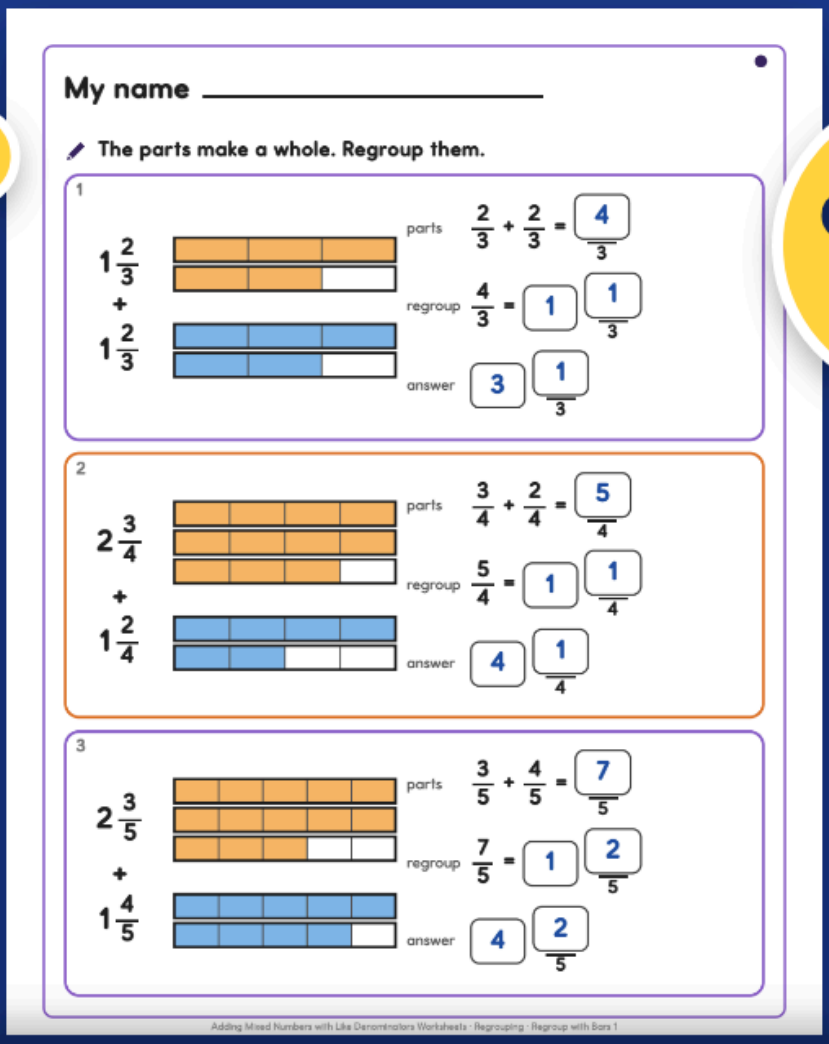
Bright Path Sped

ANSWER KEY




My name _____

The parts make a whole. Regroup them.

1. $1\frac{2}{3} + 1\frac{2}{3}$ — parts $\frac{2}{3} + \frac{2}{3} = \frac{4}{3}$; regroup $\frac{4}{3} = 1\frac{1}{3}$; answer $3\frac{1}{3}$

2. $2\frac{3}{4} + 1\frac{2}{4}$ — parts $\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$; regroup $\frac{5}{4} = 1\frac{1}{4}$; answer $4\frac{1}{4}$

3. $2\frac{3}{5} + 1\frac{4}{5}$ — parts $\frac{3}{5} + \frac{4}{5} = \frac{7}{5}$; regroup $\frac{7}{5} = 1\frac{2}{5}$; answer $4\frac{2}{5}$

Adding Mixed Numbers with Like Denominators Worksheets · Regrouping · Regroup with Bars 1

GRADES 4-5

ADDING MIXED NUMBERS WITH LIKE DENOMINATORS

Bar Models, Regrouping, Answer Key

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Print and go

Print at 100 percent, in color or black and white. The cutting pages are on pages 18-20: each has five big pieces edge to edge, so each cut is one straight line.

Student work

A filled-in tracker carries a student's name. Keep it in the data folder, and use a first name only on any page that leaves your hands.

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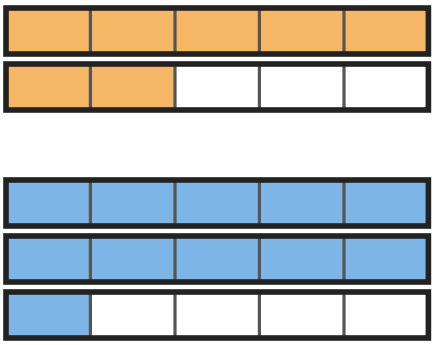
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PREVIEW

My name _____

Read the steps. Keep them close.

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



1. No regrouping

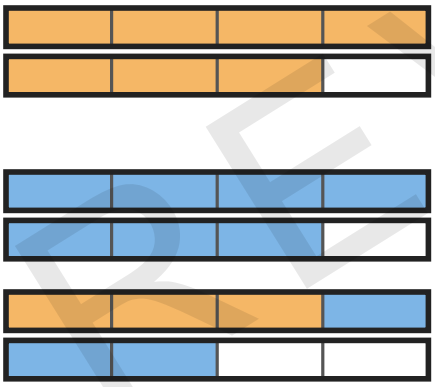
Add the wholes: 1 + 2 = 3

Add the parts: $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$

Put them together: $3\frac{3}{5}$

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

parts together



2. Regroup

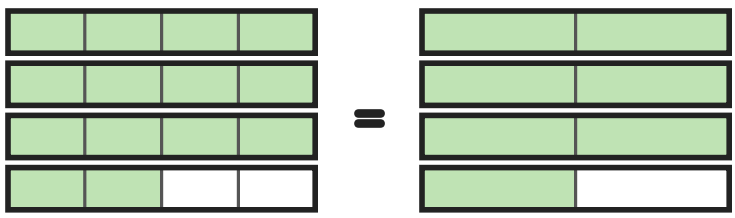
Add the parts: $\frac{3}{4} + \frac{3}{4} = \frac{6}{4}$

$\frac{6}{4}$ is $1\frac{2}{4}$: one whole and $\frac{2}{4}$ left

Add the wholes: 1 + 1 + 1 = 3

Answer: $3\frac{2}{4}$

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



3. Simplify

Divide both by 2.

Top: 2 divided by 2 = 1

Bottom: 4 divided by 2 = 2

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

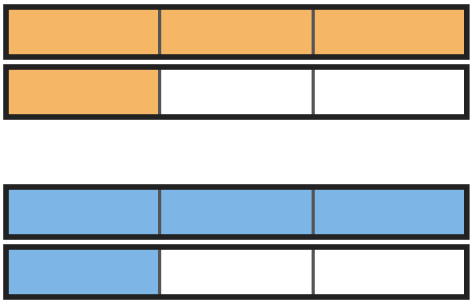
PREVIEW

My name _____

Look at the bars. Add the wholes. Add the parts.

1

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



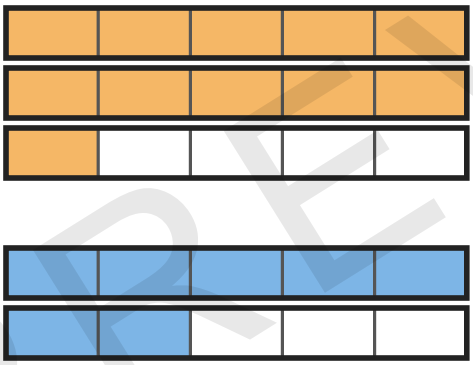
wholes $1 + 1 =$ ☐

parts $\frac{1}{3} + \frac{1}{3} = \frac{\square}{3}$

answer ☐ $\frac{\square}{3}$

2

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



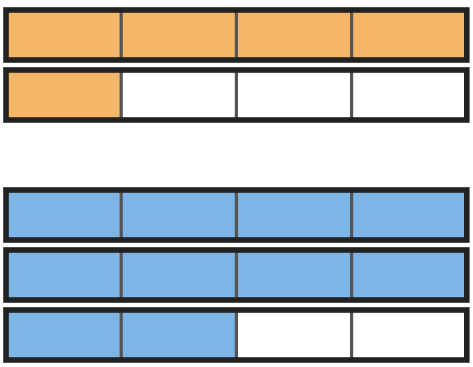
wholes $2 + 1 =$ ☐

parts $\frac{1}{5} + \frac{2}{5} = \frac{\square}{5}$

answer ☐ $\frac{\square}{5}$

3

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



wholes $1 + 2 =$ ☐

parts $\frac{1}{4} + \frac{2}{4} = \frac{\square}{4}$

answer ☐ $\frac{\square}{4}$

PREVIEW

My name _____

Add the wholes. Add the parts.

1

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

answer ☐ $\frac{\square}{\square}$

Show your work

2

$$5\frac{1}{8} + 2\frac{4}{8} =$$

answer ☐ $\frac{\square}{\square}$

Show your work

3

$$2\frac{3}{10} + 6\frac{4}{10} =$$

answer ☐ $\frac{\square}{\square}$

Show your work

4

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

answer ☐ $\frac{\square}{\square}$

Show your work

5

$$6\frac{2}{12} + 3\frac{5}{12} =$$

answer ☐ $\frac{\square}{\square}$

Show your work

6

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

answer ☐ $\frac{\square}{\square}$

Show your work

PREVIEW

My name _____

Look at the bars. Regroup. Write the answer.

1

$1\frac{4}{6}$



+

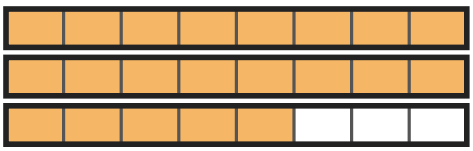
$1\frac{3}{6}$



answer ☐ ☐/☐

2

$2\frac{5}{8}$



+

$1\frac{6}{8}$



answer ☐ ☐/☐

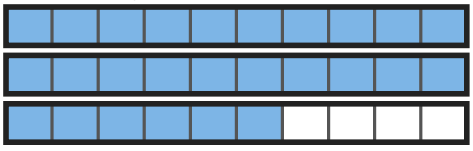
3

$1\frac{7}{10}$



+

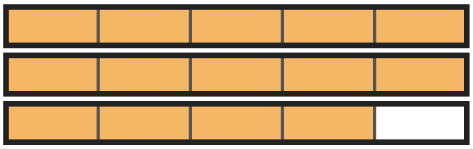
$2\frac{6}{10}$



answer ☐ ☐/☐

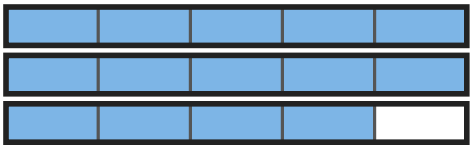
4

$2\frac{4}{5}$



+

$2\frac{4}{5}$



answer ☐ ☐/☐

PREVIEW

My name _____

Shade the bars. Then add and regroup.

1

$1\frac{4}{6}$



answer $\square\frac{\square}{\square}$

\+

$2\frac{3}{6}$



Show your work

PREVIEW

2

$1\frac{4}{5}$



answer $\square\frac{\square}{\square}$

\+

$2\frac{4}{5}$



Show your work

3

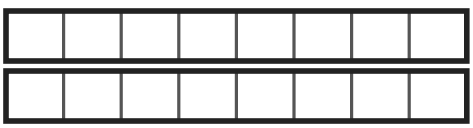
$2\frac{6}{8}$



answer $\square\frac{\square}{\square}$

\+

$1\frac{7}{8}$



Show your work

My name _____

Add. Then write the answer in lowest terms.

1

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

sum ☐ $\frac{\square}{\square}$

lowest terms ☐ $\frac{\square}{\square}$

Show your work

2

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

sum ☐ $\frac{\square}{\square}$

lowest terms ☐ $\frac{\square}{\square}$

Show your work

3

$$2\frac{7}{10} + 3\frac{5}{10} =$$

sum ☐ $\frac{\square}{\square}$

lowest terms ☐ $\frac{\square}{\square}$

Show your work

4

$$5\frac{5}{12} + 4\frac{9}{12} =$$

sum ☐ $\frac{\square}{\square}$

lowest terms ☐ $\frac{\square}{\square}$

Show your work

PREVIEW

My name _____

Read. Add. Write the answer in lowest terms.

1

A bag of flour weighs $3\frac{5}{6}$ pounds. A bag of rice weighs $2\frac{4}{6}$ pounds. How many pounds do the two bags weigh together?

Show your work

answer _____ pounds

2

A tank holds $5\frac{3}{10}$ gallons of water. Then $4\frac{6}{10}$ more gallons are poured in. How many gallons are in the tank now?

Show your work

answer _____ gallons

3

A garden path is $4\frac{5}{8}$ meters long. A new part adds $3\frac{5}{8}$ meters to it. How long is the path now?

Show your work

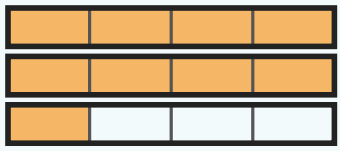
answer _____ meters

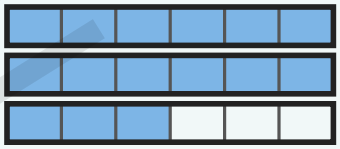
PREVIEW

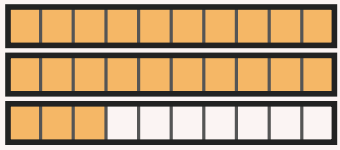
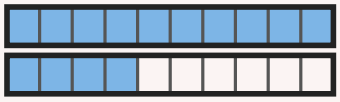
My name _____

Add. Cut. Glue the answer.

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

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

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

$2\frac{3}{10}$  + $1\frac{4}{10}$  =

$2\frac{3}{5}$	$3\frac{5}{6}$	$3\frac{3}{4}$	$4\frac{1}{3}$	$3\frac{7}{10}$

PREVIEW

My name _____

Add. Cut. Glue it in lowest terms.

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

$4\frac{5}{6} + 3\frac{5}{6} =$ ____

$2\frac{5}{8} + 1\frac{5}{8} =$ ____

$5\frac{7}{12} + 2\frac{9}{12} =$ ____

$7\frac{3}{5}$	$6\frac{1}{2}$	$8\frac{2}{3}$	$4\frac{1}{4}$	$8\frac{1}{3}$

PREVIEW

Answer Key 2

Each number is the item number on its page.

Page 10 · Regroup the Parts

1) 3 5/6 + 4 2/6: 7/6 = 1 1/6; answer 8 1/6
2) 5 6/8 + 2 5/8: 11/8 = 1 3/8; answer 8 3/8
3) 4 7/10 + 3 6/10: 13/10 = 1 3/10; answer 8 3/10
4) 2 9/12 + 6 8/12: 17/12 = 1 5/12; answer 9 5/12
5) 6 3/5 + 5 4/5: 7/5 = 1 2/5; answer 12 2/5
6) 7 3/4 + 1 2/4: 5/4 = 1 1/4; answer 9 1/4

Page 11 · Shade the Bars

1) 1 4/6 + 2 3/6: 7/6 = 1 1/6; answer 4 1/6
2) 1 4/5 + 2 4/5: 8/5 = 1 3/5; answer 4 3/5
3) 2 6/8 + 1 7/8: 13/8 = 1 5/8; answer 4 5/8

Page 12 · Simplify the Answer 1

1) 1 1/4 + 1 1/4 = 2 2/4, lowest terms 2 1/2
2) 2 1/6 + 1 3/6 = 3 4/6, lowest terms 3 2/3
3) 2 3/4 + 1 3/4 = 4 2/4, lowest terms 4 1/2

Page 13 · Simplify the Answer 2

1) 3 2/6 + 2 2/6 = 5 4/6, lowest terms 5 2/3
2) 4 3/8 + 1 3/8 = 5 6/8, lowest terms 5 3/4
3) 2 7/10 + 3 5/10 = 6 2/10, lowest terms 6 1/5
4) 5 5/12 + 4 9/12 = 10 2/12, lowest terms 10 1/6

Page 14 · Word Problems 1

1) 2 1/4 + 1 2/4 = 3 3/4 feet
2) 1 2/3 + 1 2/3 = 3 1/3 cups
3) 1 3/8 + 2 4/8 = 3 7/8 yards

Page 15 · Word Problems 2

1) 3 5/6 + 2 4/6 = 6 3/6 = 6 1/2 pounds
2) 5 3/10 + 4 6/10 = 9 9/10 gallons
3) 4 5/8 + 3 5/8 = 8 2/8 = 8 1/4 meters

Simplify

On the simplify pages the key shows the sum first and then the same amount in lowest terms. Both are the same amount; the page asks for lowest terms, so that is the one to look for.

Word problems

Look for the unit with the answer (feet, cups, yards, pounds, gallons, meters). Any layout of the work is fine if the add is right.

PREVIEW

Tracker

For each page, write the date and how many were right. A blank row means not done yet, never wrong.

Student _____ Teacher _____ School year _____

Page	Skill	Date	Right	Out of	Notes
5	Add with Bars 1			3	
6	Add with Bars 2			4	
7	Add the Mixed Numbers			6	
8	Regroup with Bars 1			3	
9	Regroup with Bars 2			4	
10	Regroup the Parts			6	
11	Shade the Bars			3	
12	Simplify the Answer 1			3	
13	Simplify the Answer 2			4	
14	Word Problems 1			3	
15	Word Problems 2			3	
16	Mixed Practice 1			6	
17	Mixed Practice 2			6	
18	Cut and Glue 1			4	
19	Cut and Glue 2			4	
20	Cut and Glue 3			4	

PREVIEW

Mixed Numbers at Home

Send this page home with a child, or hand it to a family at a conference. Change the measurements to match your week.

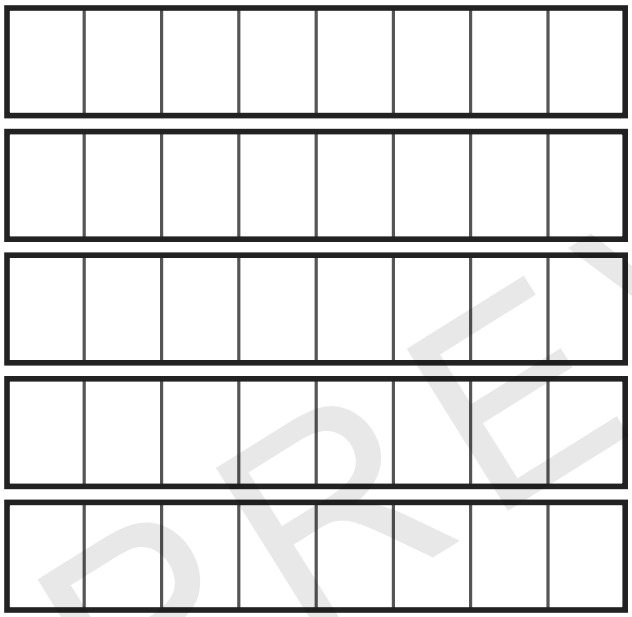
Student _____ Week of _____

How to help at home, in three steps

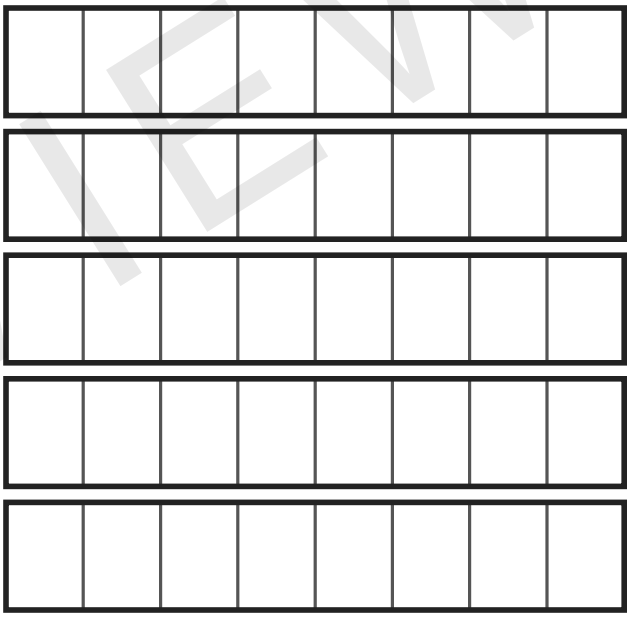
- Pick two measurements with halves, fourths or eighths: cups in a recipe, or inches on a ruler.
- Write each one as a mixed number. Shade the bars below: one bar for each whole, then the extra parts.
- Add the wholes. Add the parts. If the parts make a whole or more, move a whole over to the wholes.

Shade it here

First amount



Second amount



Together: ☐ ☐/☐ **I added** _____

Try saying

- "How many equal parts are in each bar?"
- "Do the parts make a whole or more? Where does the extra whole go?"
- "Can the fraction be made smaller?"

PREVIEW