Name _____ Date _____ Class _____

LESSON 3

Fraction Operations

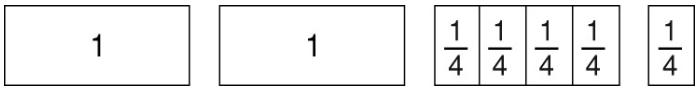
Review for Mastery: Regrouping to Subtract Mixed Numbers

You can use fraction strips to regroup and subtract mixed numbers.

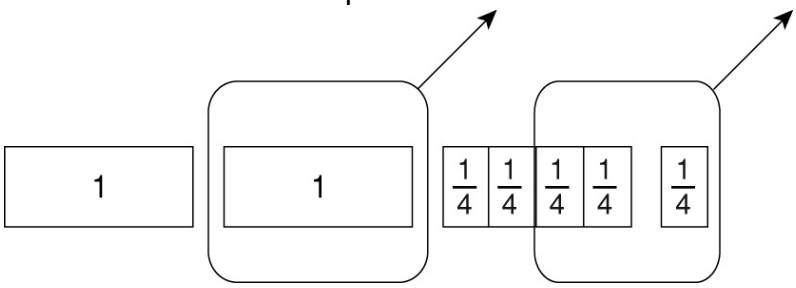
To find $3\frac{1}{4} - 1\frac{3}{4}$, first model the first mixed number in the expression.

There are not enough $\frac{1}{4}$ pieces to subtract, so you have to regroup.

Trade one one-whole strip for four $\frac{1}{4}$ pieces, because $\frac{4}{4} = 1$.



Now there are enough $\frac{1}{4}$ pieces to subtract. Take away $1\frac{3}{4}$.



The remaining pieces represent the difference. Write the difference in simplest form.

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

Use fraction strips to find each difference. Write your answer in simplest form.

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

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

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

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

5. $5\frac{5}{12} - 2\frac{7}{12}$ _____

6. $3\frac{3}{10} - 1\frac{9}{10}$ _____

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

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

9. $3\frac{1}{8} - 1\frac{3}{8}$ _____

10. $2\frac{1}{8} - 1\frac{7}{8}$ _____

11. $3 - 1\frac{1}{4}$ _____

12. $6\frac{3}{8} - 2\frac{5}{8}$ _____

16. $2\frac{5}{8}$ feet of paper

17. $\frac{2}{3}$ inch

18. $\frac{3}{4}$ mile

Practice C

1. $3\frac{1}{12}$
2. $6\frac{15}{26}$
3. $10\frac{13}{24}$
4. $2\frac{10}{21}$
5. $14\frac{23}{36}$
6. $12\frac{31}{35}$
7. $8\frac{11}{56}$
8. $2\frac{15}{28}$
9. $19\frac{41}{110}$
10. $1\frac{5}{24}$
11. $\frac{17}{24}$
12. $1\frac{11}{12}$
13. $3\frac{5}{8}$
14. $4\frac{5}{6}$
15. $2\frac{11}{12}$
16. $3\frac{23}{30}$ pounds
17. $9\frac{3}{8}$ pounds
18. $1\frac{19}{20}$ miles

Review for Mastery

1. $\frac{1}{2}$
2. $1\frac{1}{3}$
3. $2\frac{1}{2}$
4. $\frac{2}{3}$
5. $2\frac{5}{6}$
6. $1\frac{2}{5}$
7. $3\frac{1}{2}$
8. $2\frac{2}{3}$
9. $1\frac{3}{4}$
10. $\frac{1}{4}$
11. $1\frac{3}{4}$
12. $3\frac{3}{4}$

Challenge

$\frac{5}{6}$ **A**; $\frac{3}{8}$ **E**; $\frac{2}{3}$ **J**; $\frac{7}{10}$ **M**; $\frac{2}{5}$ **R**; $\frac{5}{9}$ **S**; $\frac{9}{10}$ **Y**

J A M E S

M A R Y

Problem Solving

1. $\frac{7}{8}$ pound more
2. $31\frac{9}{16}$ pounds more
3. $8\frac{7}{10}$ pounds more
4. $13\frac{7}{16}$ pounds more
5. $\frac{11}{16}$ pound more
6. $42\frac{9}{16}$ pounds more
7. C
8. G

Reading Strategies

1. $\frac{6}{8}$
2. Numbers may have to be regrouped.
3. When you subtract whole numbers, you regroup whole numbers. With fractions you regroup a whole number as a fraction.

Puzzles, Twisters & Teasers

1. $1\frac{1}{3}$
2. $\frac{4}{7}$
3. $\frac{4}{5}$
4. $1\frac{5}{8}$
5. $\frac{7}{12}$

T H E S T E A K S A R E

T O O H I G H

Answers for Lesson 4

Practice A

1. $k = 1\frac{1}{2}$
2. $m = 3\frac{5}{6}$
3. $p = \frac{7}{12}$
4. $n = 1\frac{1}{4}$
5. $y = 4\frac{1}{2}$
6. $d = 1\frac{3}{10}$
7. $q = 2\frac{1}{14}$
8. $z = 3\frac{1}{10}$