

## LESSON

**Fraction Operations****3****Practice B: Regrouping to Subtract Mixed Numbers****Subtract. Write each answer in simplest form.**

1.  $4 - 2\frac{3}{8}$   
\_\_\_\_\_

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

3.  $14 - 8\frac{2}{9}$   
\_\_\_\_\_

4.  $19\frac{1}{7} - 5\frac{1}{3}$   
\_\_\_\_\_

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

6.  $10\frac{1}{5} - 5\frac{7}{10}$   
\_\_\_\_\_

7.  $1\frac{1}{6} - \frac{7}{9}$   
\_\_\_\_\_

8.  $9\frac{1}{4} - 1\frac{7}{16}$   
\_\_\_\_\_

9.  $6\frac{1}{5} - 3\frac{1}{4}$   
\_\_\_\_\_

**Evaluate each expression for  $a = 1\frac{1}{2}$ ,  $b = 2\frac{1}{3}$ ,  $c = \frac{1}{4}$ , and  $d = 3$ . Write the answer in simplest form.**

10.  $b - a$   
\_\_\_\_\_

11.  $a - c$   
\_\_\_\_\_

12.  $b - c$   
\_\_\_\_\_

13.  $d - a$   
\_\_\_\_\_

14.  $d - b$   
\_\_\_\_\_

15.  $d - c$   
\_\_\_\_\_

16. Tim had 6 feet of wrapping paper for Kylie's birthday present. He used  $3\frac{3}{8}$  feet of the paper to wrap her gift.

How much paper did Tim have left? \_\_\_\_\_

17. At his last doctor's visit, Pablo was  $60\frac{1}{2}$  inches tall.At today's visit, he measured  $61\frac{1}{6}$  inches. How much did Pablo grow between visits? \_\_\_\_\_18. Yesterday, Danielle rode her bike for  $5\frac{1}{2}$  miles. Today,she rode her bike for  $6\frac{1}{4}$  miles. How much farther did Danielle ride her bike today? \_\_\_\_\_

5.  $\frac{11}{12}$

6.  $\frac{7}{8}$

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

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

**Challenge**

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

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

3.  $\frac{5}{6}$

4.  $\frac{3}{8}$

5.  $\frac{9}{10}$

**Problem Solving**1. Asia and Europe;  $\frac{18}{25}$  of the population2.  $\frac{7}{50}$  of the population3.  $\frac{1}{2}$  of the population

4. C

5. F

6. A

7. H

**Reading Strategies**

1. Fractions that have different denominators.

2. Find a common denominator.

3. Multiply the denominators.

4. three

5. two

6.  $\frac{5}{6}$

7.  $\frac{1}{6}$

**Puzzles, Twisters & Teasers**

1. E;  $\frac{1}{3} + \frac{1}{7} = \frac{7}{21} + \frac{3}{21} = \frac{10}{21}$

2. C;  $\frac{1}{4} + \frac{1}{9} = \frac{9}{36} + \frac{4}{36} = \frac{13}{36}$

3. D;  $\frac{4}{5} - \frac{1}{3} = \frac{12}{15} - \frac{5}{15} = \frac{7}{15}$

4. S;  $\frac{3}{4} - \frac{3}{10} = \frac{15}{20} - \frac{6}{20} = \frac{9}{20}$

5. T;  $\frac{7}{12} + \frac{3}{8} = \frac{14}{24} + \frac{9}{24} = \frac{23}{24}$

6. L;  $\frac{3}{4} - \frac{3}{12} = \frac{9}{12} - \frac{3}{12} = \frac{6}{12} = \frac{1}{2}$

L C D

**Answers for Lesson 3****Practice A**

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

2.  $7\frac{17}{12}$

3.  $3\frac{14}{9}$

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

5.  $6\frac{10}{9}$

6.  $9\frac{10}{7}$

7.  $1\frac{1}{3}$

8.  $\frac{3}{4}$

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

10.  $\frac{1}{2}$

11.  $\frac{7}{9}$

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

13.  $3\frac{1}{2}$

14.  $1\frac{9}{16}$

15.  $\frac{8}{15}$

16.  $\frac{1}{2}$  of a pie

17.  $\frac{5}{6}$  of an inch

**Practice B**

1.  $1\frac{5}{8}$

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

3.  $5\frac{7}{9}$

4.  $13\frac{17}{21}$

5.  $3\frac{5}{8}$

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

7.  $\frac{7}{18}$

8.  $7\frac{13}{16}$

9.  $2\frac{19}{20}$

10.  $\frac{5}{6}$

11.  $1\frac{1}{4}$

12.  $2\frac{1}{12}$

13.  $1\frac{1}{2}$

14.  $\frac{2}{3}$

15.  $2\frac{3}{4}$

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.  $\frac{7}{12}$

THE STEAKS ARE  
TOO HIGH

**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.  $z = 3\frac{1}{10}$