

# MOMENTUM MATH LEVEL F



## TABLE OF CONTENTS — — — — —

### Unit 2—Fraction Concepts

<b>Lesson A:</b> Parts of a Whole . . . . .	101
<i>What do fractions represent?</i>	
<b>Lesson B:</b> Fractions Equal to 1 and 0 . . . . .	111
<i>How can you describe the numbers 1 and 0 as fractions?</i>	
<b>Lesson C:</b> Representing Fractions . . . . .	121
<i>What do the numerator and denominator of a fraction tell you?</i>	
<b>Lesson D:</b> Parts of a Set . . . . .	131
<i>How do fractions describe parts of a set?</i>	
<b>Lesson E:</b> Fractions and Division . . . . .	141
<i>How are fractions related to division?</i>	
<b>Lesson F:</b> Equivalent Fractions . . . . .	151
<i>How can you tell whether two fractions describe the same value?</i>	
<b>Lesson G:</b> Comparing Fractions . . . . .	161
<i>How do the numerator and denominator affect the value of a fraction?</i>	
<b>Lesson H:</b> Adding Fractions . . . . .	171
<i>How do you combine fractions?</i>	
<b>Lesson I:</b> Improper Fractions and Mixed Numbers . . . . .	181
<i>How are improper fractions and mixed numbers related?</i>	
<b>Lesson J:</b> Fractions on the Number Line . . . . .	191
<i>How do you find a fraction on the number line?</i>	
<b>Glossary</b> . . . . .	A1

# PARTS OF A WHOLE

## Today's Destination

What do fractions represent?

# A



### Vocabulary

**Fraction** A number that can be written as  $\frac{a}{b}$  where  $a$  and  $b$  are integers and  $b$  is not equal to 0

Fractions	
<b>1</b>	← <b>numerator</b> number of parts
—	
<b>10</b>	← <b>denominator</b> number of parts in one whole



### Problem of the Day



Write one example of a fraction. \_\_\_\_\_



## IN THE DRIVER'S SEAT

Divide.



1)  $1 \div 2 =$

2)  $3 \div 14 =$

3)  $5 \div 10 =$

4)  $1 \div 12 =$

5)  $6 \div 7 =$

6)  $4 \div 11 =$

Write each fraction as a division problem.



7)  $\frac{5}{9} =$  \_\_\_\_\_

8)  $\frac{4}{11} =$  \_\_\_\_\_

9)  $\frac{1}{7} =$  \_\_\_\_\_

10)  $\frac{8}{8} =$  \_\_\_\_\_

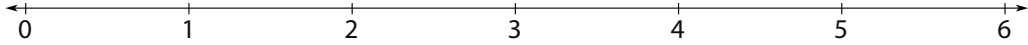
11)  $\frac{3}{4} =$  \_\_\_\_\_

12)  $\frac{7}{13} =$  \_\_\_\_\_

## SIDE TRIPS

- 1) Plot and label the fractions below on the number line.

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



Explain how to find  $\frac{5}{2}$  on the number line.




---

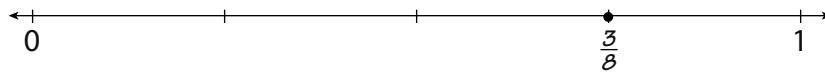


---



---

- 2) Xavier was asked to label the fraction on a number line. Xavier made a mistake.



Explain Xavier's mistake.




---

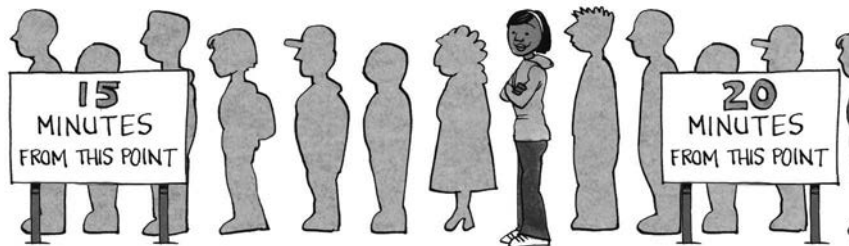


---



---

- 3) Maria is waiting on line at an amusement park. She estimates that she has about  $16\frac{1}{2}$  minutes left to wait.



If the line is moving at a constant speed, is Maria's estimate reasonable? Explain.




---



---