

Janine worked  $5\frac{1}{2}$  hours on Saturday and  $7\frac{3}{4}$  hours on Sunday. How many hours did she work over the weekend?

- A  $13\frac{1}{4}$
- B  $13\frac{3}{4}$
- C 14
- D  $14\frac{1}{4}$

### OPEN-ENDED ITEM

9. Carla and Joy are having a race to see who can finish a 100-page book first. After a week, Carla had read 88 pages. Joy had read  $\frac{7}{10}$  of the book. How many more pages had Carla read than Joy?

---

7. By the time school started, Brandon had read  $5\frac{3}{4}$  of the books on his summer reading list. Garret had read  $10\frac{1}{3}$  of the books on his list. How many books did they read altogether?

- A  $16\frac{1}{12}$
- B  $16\frac{1}{4}$
- C  $16\frac{1}{2}$
- D  $16\frac{2}{3}$

3. Peggy spent  $\frac{1}{4}$  of her violin practice time doing scales. She spent  $\frac{5}{12}$  of the time working on a piece for a concert. How much more of her practice time did Peggy spend on the concert piece than on her scales?

- A  $\frac{1}{6}$
- B  $\frac{3}{8}$
- C  $\frac{1}{2}$
- D  $\frac{2}{3}$

7. Richard jogged  $\frac{1}{3}$  of his normal route on Monday. On Tuesday, he jogged  $\frac{3}{5}$  of his route. How much more of his normal route did Richard jog on Tuesday than on Monday?

- A  $\frac{4}{15}$
- B  $\frac{2}{5}$
- C  $\frac{2}{3}$
- D  $\frac{4}{5}$

### OPEN-ENDED ITEM

9. It is  $4\frac{5}{10}$  miles from Leslie's house to the library. It is  $5\frac{1}{4}$  miles from the library to the school. How far is it from Leslie's house to the library to the school?

---

7. Oliver's family drove 266 miles from Detroit to Chicago. Their average speed was 59.7 miles per hour. Which is the *best* estimate for how long the trip took?

- A 2 hours
- B 3 hours
- C 5 hours
- D 6 hours

9. In 2004, Americans spent \$91.6 billion on foreign travel and \$37.4 billion on recreation.

Which will give a better estimate for how much more was spent on foreign travel than recreation, rounding to the nearest ten billion or to the nearest one billion?

A greyhound can run 39.35 miles per hour. A quarterhorse can run 47.5 miles per hour. How much faster can a quarterhorse run than a greyhound?

- A 7.2 mph
- B 8.15 mph
- C 9.45 mph
- D 9.85 mph

7. Jesse is planning a vacation to Sweden. He knows that 7.348 krona equals \$1. How many krona will he have if he exchanges \$96?

- A 70.5408
- B 705.408
- C 7,054.8
- D 7,540.8

7. Victoria has \$93.60 to spend on meals on her vacation. She figures out that she can spend \$7.80 for each meal. How many meals will Victoria eat on vacation?

- A 12
- B 13
- C 15
- D 20

9. Mrs. Ward earns \$28.36 per hour. Last week she worked 37.5 hours.

How much money did she earn last week? Show your work.

① What is 24% of 32?

② John bought shoes for \$45.00.  
Tax was 6%. How much did John  
Pay in total?

③ What is 35% of 180?

---

Write the following ~~decimals~~ as fractions:

① .7

② .85

③ .386

★ remember to simplify ★

Write the following fractions as decimals:  
(round to the thousandths place, if necessary)

①  $\frac{6}{15}$

②  $\frac{3}{8}$

③  $\frac{35}{36}$



## Computing with Fractions

Evaluate each expression.

1)  $\frac{12}{7} - \frac{8}{5}$

2)  $\frac{1}{2} + \frac{4}{3}$

3)  $\frac{2}{3} - \frac{1}{2}$

4)  $2\frac{1}{3} + 2\frac{4}{7}$

Find each product.

5)  $3\frac{1}{5} \times 3\frac{1}{6}$

6)  $\frac{4}{5} \times \frac{3}{2}$

7)  $2\frac{1}{3} \times 2\frac{5}{6}$

Find each quotient.

8)  $1\frac{2}{3} \div 5$

9)  $\frac{7}{8} \div 4\frac{2}{7}$

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

QUILT A quilt measures  $4\frac{2}{3}$  feet by 6 feet. What is the area of the quilt?

CHAIN Duane bought  $68\frac{3}{4}$  inches of chain for an art project. How many 15-inch chains can he make from it?



# REAL WORLD FRACTION PROBLEMS

Name: \_\_\_\_\_

Hr: \_\_\_\_\_

JUICE A cooler contains  $13\frac{1}{2}$  cups of fruit juice. How many pints of fruit juice does the cooler contain?

READING Use the *draw a diagram* strategy to solve. Elvin read  $\frac{3}{7}$  of the pages in his book. He has 56 pages left to read. How many pages has he read already?



RECIPE A recipe make  $5\frac{1}{2}$  dozen cookies. Marquis needs to make  $3\frac{3}{4}$  times this amount. How many dozens of cookies will he make?

AGE Mrs. Franks is  $54\frac{2}{3}$  years old. Her grandson is  $3\frac{1}{3}$  years old. How many times older is Mrs. Franks than her grandson?

# REAL WORLD FRACTION PROBLEMS

Name: \_\_\_\_\_

Hr: \_\_\_\_\_

JUICE A cooler contains  $13\frac{1}{2}$  cups of fruit juice. How many pints of fruit juice does the cooler contain?

READING Use the *draw a diagram* strategy to solve. Elvin read  $\frac{3}{7}$  of the pages in his book. He has 56 pages left to read. How many pages has he read already?



RECIPE A recipe make  $5\frac{1}{2}$  dozen cookies. Marquis needs to make  $3\frac{3}{4}$  times this amount. How many dozens of cookies will he make?

AGE Mrs. Franks is  $54\frac{2}{3}$  years old. Her grandson is  $3\frac{1}{3}$  years old. How many times older is Mrs. Franks than her grandson?





## 8

## Estimation with Whole Numbers



## Getting the Idea

GLCEs: N.FL.06.14

Sometimes it is not necessary to know an exact answer. In those situations, an **estimate**, an answer close to the exact answer, is all that is needed. One way to estimate is to **round** numbers to a specific place.

To round a number, look at the digit to the right of the place that you are rounding. If the digit is 5 or greater, round up to the next digit in that place. If the digit is less than 5, round down. In either case, replace the lesser digits with zeros.

When rounded to the nearest thousand, 4,527 rounds to 5,000 because the hundreds digit is 5. When rounded to the nearest hundred, 4,527 rounds to 4,500 because the tens digit is less than 5.

3. Stuart multiplied  $583 \times 47 = 27,401$ . Using estimation, which sentence is correct?
- A Stuart's product is reasonable.
  - B Stuart's product is not reasonable because the estimated product is in hundred thousands.
  - C Stuart's product is not reasonable because the estimated product is in thousands.
  - D Stuart's product is not reasonable because he picked the wrong numbers to round.
2. The population of Montana in 2004 was 926,865. The population of Alaska was 655,435. To the nearest ten thousand, about how many more people lived in Montana than Alaska?
- A 260,000
  - B 270,000
  - C 280,000
  - D 290,000
4. There were 18 performances of a summer concert, which were attended by a total of 4,770 people. About the same number of people attended each concert. Which is the *best* estimate for the number of people who attended each concert?
- A 200
  - B 220
  - C 240
  - D 300
5. Miguel scored 4,650 points while playing a video game on Saturday. On Sunday, he scored 6,435 points. Which is the *best* estimate for the number of points he scored that weekend?
- A 10,000
  - B 11,000
  - C 12,000
  - D 13,000

## 9

## Estimation with Decimals

GLCEs: N.FL.06.14



## Getting the Idea

To estimate with decimals, round as you would with whole numbers. You can round to any place value.

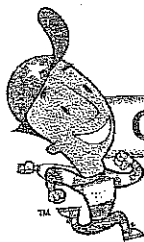
Choose the correct answer.

1. Mrs. Warren spent \$150.82 at the grocery store, \$19.56 at the hardware store, and \$24.12 at the drugstore. Which is the *best* estimate for the total amount that she spent?
- A \$194.00  
B \$195.00  
C \$196.00  
D \$197.00
6. An ERJ-135 aircraft can fly 357 miles per hour. About how far could it fly in 2.8 hours?
- A 9,000 miles  
B 1,080 miles  
C 1,020 miles  
D 1,400 miles

## 10

## Estimation with Mixed Numbers

GLCEs: N.FL.06.14



## Getting the Idea

To estimate sums and differences with mixed numbers, you can round to the nearest  $\frac{1}{2}$  or whole number. To round a mixed number to the nearest whole number, use  $\frac{1}{2}$  as a benchmark. If the fraction part is  $\frac{1}{2}$  or greater, round up to the next whole number. Otherwise, simply remove the fraction part.

4. A small film festival lasted  $15\frac{2}{3}$  hours. Each film was  $2\frac{1}{4}$  hours long. About how many films were shown at the festival?
- A 6  
B 7  
C 8  
D 9

# Estimation WS

Name: \_\_\_\_\_

Hr: \_\_\_\_\_

6. The French club made \$42 at its first fundraiser. The club hopes to make  $4\frac{2}{3}$  times that amount at the next fundraiser. About how much does the club hope to make?

- A \$200
- B \$250
- C \$300
- D \$325

8. A bakery made 32 cakes to sell by the slice. If  $2\frac{2}{3}$  cakes were sold per hour, about how many hours did it take to sell all 32 cakes?

- A 19
- B 10
- C 11
- D 12

8. A movie was 2.15 hours long. About how many minutes long was the movie?

- A 120 minutes
- B 150 minutes
- C 160 minutes
- D 180 minutes

9. Pizza Planet hosted 3 birthday parties one weekend. At the first party,  $5\frac{1}{6}$  pizzas were eaten. At the second party,  $8\frac{3}{8}$  pizzas were eaten. At the third party,  $3\frac{3}{4}$  pizzas were eaten. To the nearest  $\frac{1}{2}$ , about how many pizzas were eaten at all three parties?

4. A music CD is 57.54 minutes long. If there are 17 songs of about the same length, about how long is each song?

- A 2 minutes
- B 3 minutes
- C 4 minutes
- D 5 minutes

On a camping trip, Bill and Ted hiked  $3\frac{5}{8}$  miles in the morning and  $5\frac{2}{3}$  miles in the afternoon. About how far did they hike that day, rounded to the nearest  $\frac{1}{2}$ ?

- A  $8\frac{1}{2}$  miles
- B 9 miles
- C  $9\frac{1}{2}$  miles
- D 10 miles

3. Lisa wants to exchange \$65.57 in American dollars for Indian rupees. One American dollar is worth 45.26 rupees. Which is the *best* estimate for the rupees Lisa will receive?

- A 2,970
- B 2,990
- C 3,000
- D 3,050



## 1

# Add and Subtract Whole Numbers and Decimals

GLCEs: N.FL.06.10; N.FL.06.15



## Getting the Idea

In addition, the numbers you add are **addends**, and the answer is the **sum**. Add the digits from right to left. If a sum of a column is 10 or greater, you will have to **regroup**.

4. What is  $248.56 - 88.9$ ?

- A 159.66
- B 160.47
- C 239.67
- D 260.66

1. What is  $92,378 + 54,594$ ?

- A 146,962
- B 146,972
- C 147,962
- D 147,972

## 2

# Multiply Whole Numbers and Decimals

GLCEs: N.FL.06.10; N.FL.06.15



## Getting the Idea

To find the **product** of a multi-digit whole number and a 2-digit factor, multiply by the ones and then the tens to find partial products. Then add the partial products to find the product.

5. What is the product of this problem?

$$\begin{array}{r} 53.25 \\ \times 0.052 \\ \hline \end{array}$$

- A 2.769
- B 27.609
- C 27.69
- D 276.9

3. Ruben earns \$285.47 a month at his part-time job. How much money does he earn in 2 years?

- A \$1,712.82
- B \$6,851.28
- C \$6,852.28
- D \$7,851.28

What is  $347 \times 72$ ?

- A 2,868
- B 3,123
- C 22,524
- D 24,984

## 3

# Divide Whole Numbers and Decimals

GLCEs: N.FL.06.10; N.FL.06.15



## Getting the Idea

The number that is being divided is the **dividend**. The number that the dividend is divided by is the **divisor**. The answer is the **quotient**. Sometimes a number will remain when division has been completed.

You may need to add zeros to the dividend in order to keep dividing.

1. What is  $6,528 \div 8$ ?

- A 793 R4
- B 816
- C 816 R1
- D 826

4. What is  $282.336 \div 6.8$ ?

- A 4.152
- B 31.1
- C 41.52
- D 58.57

6. In 2002, the average annual salary in San Francisco, California, was \$56,602. How much is this per week?

- A \$ 108.85
- B \$1,026.90
- C \$1,088.00
- D \$1,088.50

# Computing with Whole Numbers and Decimals. WS

Name: \_\_\_\_\_  
Date: \_\_\_\_\_

2. In the 2004 presidential election, John Kerry received 44,282 votes in Muskegon County, and George W. Bush received 35,302 votes. How many more votes did John Kerry receive than George W. Bush in Muskegon County?

- A 8,980
- B 9,980
- C 18,980
- D 19,980

6. Kristina rode her bicycle 13.78 miles total going to and from swimming class. She went to that class for 29 weeks. How many miles did she ride altogether?

- A 398.62 miles
- B 398.75 miles
- C 399.62 miles
- D 399.75 miles

3. Calvin earned \$158.75 mowing lawns over the summer and \$95.38 working in his mother's office. How much money did he earn altogether?

- A \$143.03
- B \$244.13
- C \$253.03
- D \$254.13

7. Mr. Palmer had \$5,675.68 in his saving account at the end of last year. Since then, he has saved \$2,168.79. How much money does he have in his savings account now?

- A \$7,733.37
- B \$7,734.47
- C \$7,843.37
- D \$7,844.47

8. What is  $2.375 \div 0.05$ ?

- A 4.75
- B 5.55
- C 44.35
- D 47.5

5. Jake had a pizza party for 28 people, including himself. He ordered 7 pizzas. How much of one pizza can each person have?

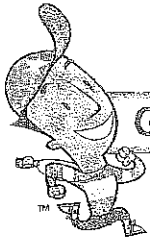
- A 0.025
- B 0.25
- C 0.285
- D 4

4. What is  $0.385 \times 0.026$ ?

- A 0.01001
- B 0.308
- C 0.1001
- D 0.308







## Getting the Idea

Percent means per hundred. To convert a percent to a fraction in simplest form, write the percent as the numerator over a denominator of 100. Then simplify the fraction using the GCF.

How can you write 75% as a fraction in simplest form?

**STRATEGY** Write the percent as a fraction with a denominator of 100. Simplify.

**STEP 1** Remove the percent sign. Write the percent as a numerator over a denominator of 100.

$$75\% = \frac{75}{100}$$

**STEP 2** Simplify the fraction using the GCF.

The GCF of 75 and 100 is 25.

Divide by  $\frac{25}{25}$ .

$$\frac{75}{100} \div \frac{25}{25} = \frac{3}{4}$$

**SOLUTION**  $75\% = \frac{3}{4}$

To convert a percent to a decimal, divide the percent by 100 and remove the percent sign. Dividing a percent by 100 is like moving the decimal point 2 places to the left. In the example above,  $75\% = 0.75$ .

What is 30% of 120?

**STRATEGY** Write the percent as a decimal and multiply.

**STEP 1** Rename 30% as a decimal.

Divide the percent by 100 and remove the percent sign.

$$30 \div 100 = 0.3$$

**STEP 2** Multiply.

$$0.3 \times 120 = 36$$

**SOLUTION** 30% of 120 is 36.

Cassie bought a book that cost \$12. The tax was 5%. How much did the book cost with tax?

**STRATEGY** Write the percent as a decimal and multiply. Then add the tax to the cost of the book

**STEP 1** Rename 5% as a decimal.

Divide the percent by 100 and remove the percent sign.

$$5 \div 100 = 0.05$$

**STEP 2** Multiply.

$$0.05 \times 12 = 0.6$$

5% of \$12 is \$0.60.

**STEP 3** Add the tax to the cost of the book.

$$\$12 + \$0.60 = \$12.60$$

**SOLUTION** The book cost \$12.60 with tax.

An item that originally sells for \$200 is on sale at 25% off. What is the sale price?

**STRATEGY** Write the percent as a fraction and multiply.

**STEP 1** Rename 25% as a fraction in simplest form.  $\frac{25}{100} = \frac{1}{4}$

**STEP 2** Multiply.  $\frac{1}{4} \times \frac{200}{1} = \frac{200}{4} = 50$

**STEP 3** Subtract the discount from the original price.  $\$200 - \$50 = \$150$

**SOLUTION** The sale price is \$150.

Amber wants to leave a 20% tip on a restaurant check that came to \$17. How much should she leave for a tip?

**STRATEGY** Write the percent as a decimal and multiply.

**STEP 1** Rename 20% as a decimal.  $20\% = 0.2$

**STEP 2** Multiply.  $0.2 \times 17 = 3.4$

**SOLUTION** A 20% tip on \$17 is \$3.40.



# Lesson Practice

Choose the correct answer.

- What is 40% of 76?  
A 3.04  
B 23.4  
C 28.4  
D 30.4
- Melinda's parents took her and her sister out for lunch. The bill came to \$45. If they left a 15% tip, which of the following shows how much money they left for a tip?  
A \$6.00  
B \$6.75  
C \$7.00  
D \$7.25
- A stereo system that originally cost \$540 is on sale at 35% off. What is the sale price of the stereo system?  
A \$351  
B \$461  
C \$500  
D \$521
- Mrs. Kim bought several items at a department store that totaled \$134.50. After the 4% tax was added, how much did Mrs. Kim spend?  
A \$137.88  
B \$138.76  
C \$139.88  
D \$188.30
- What is 28% of 50?  
A 12  
B 14  
C 16  
D 18
- Anne had her hair cut and colored, which cost \$70. She wants to give the stylist an 18% tip. How much will the tip be?  
A \$ 7.60  
B \$11.20  
C \$12.60  
D \$13.00

7. Terrence's father bought a new computer for \$1,299. The sales tax was 6%. How much did he spend altogether?

- A \$1,376.94
- B \$1,378.94
- C \$1,476.94
- D \$2,078.40

8. Jenny's favorite store was having a 15% off sale. If she bought 2 shirts that cost \$18.70 each, how much would she save?

- A \$4.50
- B \$4.61
- C \$5.40
- D \$5.61

### OPEN-ENDED ITEM

9. The original price of an outdoor grill was \$249. It was on sale for 20% off. Sales tax was 5%.

What was the sale price of the grill before tax? \_\_\_\_\_

What was the total price once the tax was added? \_\_\_\_\_

Explain the steps you took to find your answers.

---

---

---

---

# Write Decimals as Fractions and Mixed Numbers

Decimals like 0.25, 0.15, 0.31, and 0.29 can be written as fractions with denominators of 10, 100, 1,000, and so on. Any number that can be written as a fraction is a rational number.

Decimals like 3.25, 26.82, and 125.54 can be written as mixed numbers in simplest form.



## Examples

Write each decimal as a fraction in simplest form.

1. 0.6

$$\begin{aligned} 0.6 &= \frac{6}{10} \\ &= \frac{\cancel{3}}{\cancel{10}^5} \\ &= \frac{3}{5} \end{aligned}$$

| 1,000     | 100      | 10   | 1    | 0.1    | 0.01       | 0.001       |
|-----------|----------|------|------|--------|------------|-------------|
| thousands | hundreds | tens | ones | tenths | hundredths | thousandths |
| 0         | 0        | 0    | 0    | 6      | 0          | 0           |

2. 0.45

$$\begin{aligned} 0.45 &= \frac{45}{100} && \text{Say two for hundredths.} \\ &= \frac{\cancel{45}^9}{\cancel{100}^{20}} && \text{Simplify.} \\ &= \frac{9}{20} \end{aligned}$$

| 1,000     | 100      | 10   | 1    | 0.1    | 0.01       | 0.001       |
|-----------|----------|------|------|--------|------------|-------------|
| thousands | hundreds | tens | ones | tenths | hundredths | thousandths |
| 0         | 0        | 0    | 0    | 4      | 5          | 0           |

3. 0.375

$$\begin{aligned} 0.375 &= \frac{375}{1,000} && \text{Say three hundred seventy-five thousandths.} \\ &= \frac{\cancel{375}^3}{\cancel{1,000}^8} && \text{Simplify.} \\ &= \frac{3}{8} \end{aligned}$$

| 1,000     | 100      | 10   | 1    | 0.1    | 0.01       | 0.001       |
|-----------|----------|------|------|--------|------------|-------------|
| thousands | hundreds | tens | ones | tenths | hundredths | thousandths |
| 0         | 0        | 0    | 0    | 3      | 7          | 5           |

### Mental Math

Here are some commonly used decimal-fraction equivalencies:

$$0.1 = \frac{1}{10} \quad 0.2 = \frac{1}{5}$$

$$0.25 = \frac{1}{4} \quad 0.5 = \frac{1}{2}$$

$$0.75 = \frac{3}{4}$$

It is helpful to memorize these.

Show your work.

a. \_\_\_\_\_

b. \_\_\_\_\_

c. \_\_\_\_\_

**Got It?** Do these problems to find out.

a. 0.8

b. 0.28

c. 0.125



### Example



4. The average length of a conch shell is 9.87 inches. Express 9.87 as a mixed number in simplest form.

$$9.87 = 9\frac{87}{100}$$

$$= 9\frac{87 \div 5}{100 \div 5} = 9\frac{17}{20} \text{ in.}$$

**Got It?** Do this problem to find out.

- d. It takes approximately 4.65 quarts of milk to make a pound of cheese. Express this amount as a mixed number in simplest form.

Show your work!

d. \_\_\_\_\_

## Write Fractions and Mixed Number as Decimals

For fractions with denominators that are factors of 10, 100, or 1,000, you can write equivalent fractions with these denominators.

### Example



5. Write  $\frac{9}{12}$  as a decimal.

**Method 1** Write an equivalent fraction.

$$\frac{9}{12} = \frac{9 \div 3}{12 \div 3} = \frac{3}{4}$$

$$\frac{3}{4} = \frac{3 \times 25}{4 \times 25} = \frac{75}{100}$$

$$= 0.75$$

Simplify  $\frac{9}{12}$ . Then multiply the numerator and denominator of  $\frac{3}{4}$  by 25.

Read 0.75 as *seventy-five hundredths*.

**Method 2** Divide the numerator by the denominator.

$$\begin{array}{r} 0.75 \\ 12 \overline{)9.00} \\ \underline{-84} \phantom{0} \\ 60 \\ \underline{-60} \\ 0 \end{array}$$

To divide 9 by 12, place a decimal point after 9 and annex as many zeros as necessary to complete the division.

**Got It?** Do these problems to find out.

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

f.  $\frac{14}{25}$

g.  $\frac{102}{250}$

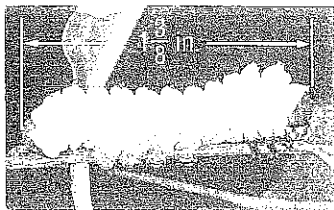
e. \_\_\_\_\_

f. \_\_\_\_\_

g. \_\_\_\_\_



### Example



6. A caterpillar can have as many as 4,000 muscles, compared to humans, who have about 600. Write the length of the caterpillar as a decimal.

$$\begin{aligned} 1\frac{3}{8} &= 1 + \frac{3}{8} \\ &= 1 + \frac{375}{1,000} \\ &= 1 + 0.375 \text{ or } 1.375 \end{aligned}$$

The length of the caterpillar is 1.375 inches.

## Guided Practice



Write each decimal as a fraction or mixed number in simplest form. (Examples 1–4)

1.  $0.4 =$  \_\_\_\_\_

2.  $0.64 =$  \_\_\_\_\_

3.  $2.75 =$  \_\_\_\_\_

Show your work

Write each fraction or mixed number as a decimal. (Examples 5 and 6)

4.  $\frac{27}{75} =$  \_\_\_\_\_

5.  $\frac{7}{2} =$  \_\_\_\_\_

6.  $3\frac{1}{5} =$  \_\_\_\_\_

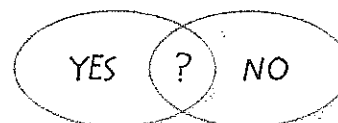
7. Mr. Ravenhead's car averages 23.75 miles per gallon of gasoline. Express this amount as a mixed number in simplest form. (Example 4) \_\_\_\_\_

8. **STEM** The Siberian tiger can grow up to  $10\frac{4}{5}$  feet long. Express this length as a decimal. (Example 6) \_\_\_\_\_

9. **Building on the Essential Question** What is the relationship between fractions and decimals?  
 \_\_\_\_\_  
 \_\_\_\_\_

### Rate Yourself!

Are you ready to move on?  
Shade the section that applies.



For more help, go online to access a Personal Tutor.



# Independent Practice

Go online for Step-by-Step Solutions

Write each decimal as a fraction in simplest form.

1.  $0.5 =$

2.  $0.7 =$

3.  $0.33 =$

4.  $0.875 =$

Write each fraction or mixed number as a decimal.

5.  $\frac{77}{200} =$

6.  $\frac{1}{20} =$

7.  $\frac{12}{75} =$

8.  $8\frac{21}{40} =$

9. **STAY!** Mercury orbits the Sun in  $87\frac{24}{25}$  Earth days. Venus orbits the Sun in  $224\frac{7}{10}$  Earth days, and Mars orbits the Sun in  $686\frac{49}{50}$  days. Write each mixed number as a decimal. (Example 6)

10. **STAY!** Last week, a share of stock gained a total of 1.64 points. Express this gain as a fraction in simplest form. (Example 4)

11. **CCSS Use Math Tools** The table shows the ingredients in an Italian sandwich.

a. What fraction of a pound is each ingredient?

.....  
.....

b. How much more meat is in the sandwich than vegetables? Write the amount as a fraction in simplest form.

.....  
.....

c. What is the total weight of the Italian sandwich? Write the amount as a fraction in simplest form.

.....  
.....

| Ingredient   | Amount (lb) |
|--------------|-------------|
| meat         | 0.35        |
| vegetables   | 0.15        |
| secret sauce | 0.05        |
| bread        | 0.05        |