Set F, pages 232–233

Common factors are factors shared by a group of numbers. The GCF is the largest factor shared by a group of numbers.

12: 1, 2, 3, 4, 6, 12

60: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60

The GCF of 12 and 60 is 12.

Remember to use divisibility rules to help you find factors of a number. List the factors of each pair of numbers, then find the GCF. **1–4 See margin.**

1. 15, 45
2. 60, 80
3. 12, 14
4. 24, 56

Set G, pages 234–236

Write $\frac{21}{36}$ in simplest form.

To express a fraction in simplest form, divide the numerator and denominator by the greatest common factor.

The GCF of 21 and 36 is 3.

$\frac{21 \div 3}{36 \div 3} = \frac{7}{12}$

Remember that the simplest form can also be found by dividing by common factors until the common factor is 1.

Write each fraction in simplest form.

1. $\frac{45}{60}$ $\frac{3}{4}$
2. $\frac{32}{96}$ $\frac{1}{3}$
3. $\frac{24}{30}$ $\frac{4}{5}$
4. $\frac{42}{49}$ $\frac{6}{7}$

Set H, pages 238–240

Write $\frac{60}{100}$ as a decimal.

You can write fractions as decimals using a place-value chart. You read $\frac{60}{100}$ as 60 hundredths.

ones	tenths	hundredths
0	6	0

You can see that $\frac{60}{100} = 0.60$.

Remember that to write a decimal, you need to pay particular attention to the denominator of the fraction.

For **1** through **4**, write each decimal as a fraction.

1. 0.3 $\frac{3}{10}$
2. 0.42 $\frac{42}{100}$
3. 0.08 $\frac{8}{100}$
4. 8.23 $8\frac{23}{100}$

For **5** through **8**, write each fraction or mixed number as a decimal.

5. $1\frac{2}{10}$ 1.2
6. $\frac{9}{100}$ 0.09
7. $\frac{7}{10}$ 0.7
8. $2\frac{35}{100}$ 2.35

Set I, pages 242–243

Write $\frac{7}{1,000}$ as a decimal.

You can write fractions as decimals using a place value chart. You read $\frac{7}{1,000}$ as seven thousandths.

ones	tenths	hundredths	thousandths
0	0	0	7

You can see that $\frac{7}{1,000} = 0.007$.

Remember that to write a decimal with thousandths place, you need to use three decimal places after the decimal.

Write each decimal as a fraction.

1. 0.192 $\frac{192}{1,000}$
2. 0.042 $\frac{42}{1,000}$

Write each fraction as a decimal.

3. $\frac{189}{1,000}$ 0.189
4. $\frac{3}{1,000}$ 0.003

Set J, pages 244–245

You can use a number line to locate fractions and decimals, and compare values.

Locate 0.2, $\frac{18}{20}$, and 0.75 on a number line.

You know that 0.2 also means $\frac{2}{10}$.

You know that $\frac{18}{20}$ also means $18 \div 20$.

Use division to find $18 \div 20 = 0.90$.

$0.7 = 0.70$ and $0.8 = 0.80$. So, 0.75 is halfway between 0.7 and 0.8.

So the order from least to greatest is 0.2, 0.75, and $\frac{18}{20}$.

Remember to divide the number line into equal sized segments to find the correct location for each fraction or decimal.

In **1** through **4**, name the fraction that identifies each point on the number line.

1. Point A $\frac{15}{100}$
2. Point B $\frac{3}{10}$
3. Point C $\frac{75}{100}$
4. Point D $\frac{8}{10}$

Set K, pages 246–247

When you are asked to explain how you found your answer, follow these steps:

Step 1 Break the process into steps.

Step 2 Use pictures and words to explain.

Step 3 Tell about things to watch out for and be careful about.

Step 4 Write your steps in order using words like *find* and *put*.

Remember to show your work clearly so that others can understand it. **See margin.**

1. Sara's paper airplane flew 8.5 yards. Jason's flew $8\frac{2}{3}$ yards. Michael's flew $8\frac{1}{4}$ yards and Denise's flew $8\frac{1}{6}$ yards. Whose airplane flew the farthest? Explain how you found your answer.

Set F

1. 15: 1, 3, 5, 15; 45: 1, 3, 5, 9, 15, 45; 15
2. 60: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60; 80: 1, 2, 4, 5, 8, 10, 16, 20, 40, 80; 20
3. 12: 1, 2, 3, 4, 6, 12; 14: 1, 2, 7, 14; 2
4. 24: 1, 2, 3, 4, 6, 8, 12, 24; 56: 1, 2, 4, 7, 8, 14, 28, 56; 8

Set K

1. Sample answer: First, change all of the mixed numbers to decimals. Next, place all of the decimals in the correct order on a number line. Finally, the number farthest to the right is the greatest number. $8\frac{2}{3}$ is the greatest number. Jason's plane flew the farthest.