Sixth Grade Vocabulary
S.O. L. 6.4 – Comparing and Ordering Fractions, Decimals, and Percents

1. Repeating Decimal	a decimal in which a digit or set of digits repeat infinitely
2. Equivalent Fraction	fraction that represent the same quotient but have different numerators and denominators.
3. Least Common Denominator	the least common multiple of the denominators of two or more fractions.
4.Improper Fraction	a fraction in which the numerator is greater than the denominator.
5. Equivalent	equal in value
6. Greater Than	Bigger. The symbol > means greater than (the symbol < means less than). **Example: 5 > 3 shows that 5 is greater than 3**
7. Less Than	Smaller. A symbol used to show that one number is smaller than another. The symbol < means Less than (the symbol > means greater than). **Example: 4 < 9 shows that 4 is Less than 9**
8. Equal	Exactly the same amount or value **Examples: 3 + 4 = 7; 1 Dollar is Equal to 100**

Name _____ Class _____

S.O.L. 6.4 Class Review Questions

1. **If you multiply any two positive fractions less than 1, which statement is true?**

A The answer could be P.
B The answer could be Q.
C The answer could be R.
D **The answer could be S.**

2. **Mrs. Austin wrote the four inequalities shown below on the classroom board. Which inequality is correct?**

A $\frac{6}{12} > \frac{1}{2}$

B $\frac{5}{11} < \frac{5}{10}$

C $\frac{4}{8} > \frac{4}{6}$

D $\frac{2}{3} < \frac{4}{6}$

3. **Which statement is true?**

A $\frac{18}{25} > \frac{24}{31}$

B $\frac{26}{21} < \frac{34}{29}$

C $\frac{15}{4} < \frac{18}{30}$

D $\frac{30}{36} > \frac{18}{23}$

4. Compare: $\frac{4}{6} \quad \frac{4}{7}$

A $\frac{4}{6} = \frac{4}{7}$

B $\frac{4}{6} > \frac{4}{7}$

C $\frac{4}{6} < \frac{4}{7}$

D $\frac{4}{7} > \frac{4}{6}$

5. Compare: $\frac{4}{9} \bigcirc \frac{4}{7}$

A $\frac{4}{9} = \frac{4}{7}$

B $\frac{4}{9} > \frac{4}{7}$

C $\frac{4}{9} < \frac{4}{7}$

D $\frac{4}{11} > \frac{4}{9}$

6. What statement is true when comparing $\frac{3}{5}$ to $\frac{2}{3}$?

A $\frac{3}{5} > \frac{2}{3}$

B $\frac{3}{5} < \frac{2}{3}$

C $\frac{3}{5} = \frac{2}{3}$

D $\frac{3}{5} \geq \frac{2}{3}$

Name _____
Class Period _____
Date _____

S.O.L. 6.4
Class Practice Sheet

1. What statement is true when comparing $\frac{3}{5}$ to $\frac{2}{3}$?

A $\frac{3}{5} > \frac{2}{3}$

B $\frac{3}{5} < \frac{2}{3}$

C $\frac{3}{5} = \frac{2}{3}$

D $\frac{3}{5} \geq \frac{2}{3}$

2. Which of the following is true?

A $0.16 < 0.016$
B $5.065 < 5.65$
C $2.804 < 2.408$
D $5.83 < 0.583$

3. Which of the following statements is true?

A $0.215 > 1.025$
B $1.112 = 1.121$
C $3.951 > 3.591$
D $0.010 < 0.001$

4. Which of the following statements is true?

A $392 > 611$
B $6169 < 919$
C $410 = 401$
D $114 < 141$

5. **Which of the following statements is true?**

A $\frac{5}{12} \geq \frac{4}{7}$

B $\frac{4}{5} < \frac{7}{4}$

C $\frac{4}{9} = \frac{6}{12}$

D $\frac{6}{9} < \frac{3}{8}$

6. **Mrs. Austin wrote the four inequalities shown below on the classroom board. Only one of them is correct. Which inequality is correct?**

A $\frac{6}{12} > \frac{1}{2}$

B $\frac{5}{11} < \frac{5}{10}$

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NAME _____ DATE _____ PERIOD ____

5-5

Study Guide and Intervention

Comparing and Ordering Fractions

Lesson 5-5

To compare two fractions,

- Find the **least common denominator (LCD)** of the fractions; that is, find the least common multiple of the denominators.
- Rewrite each fraction as an equivalent fraction whose denominator is the LCD.
- Compare the numerators.

EXAMPLE 1 **Replace ● with <, >, or = to make $\frac{1}{3}$ ● $\frac{5}{12}$ true.**

- The LCM of 3 and 12 is 12. So, the LCD is 12.
- Rewrite each fraction with a denominator of 12.

$\frac{1}{3} = \frac{\bullet}{12}$, so $\frac{1}{3} = \frac{4}{12}$. ($\times 4$) $\qquad \frac{5}{12} = \frac{5}{12}$

- Now, compare. Since $4 < 5$, $\frac{4}{12} < \frac{5}{12}$. So $\frac{1}{3} < \frac{5}{12}$.

EXAMPLE 2 **Order $\frac{1}{6}$, $\frac{2}{3}$, $\frac{1}{4}$, and $\frac{3}{8}$ from least to greatest.**

The LCD of the fractions is 24. So, rewrite each fraction with a denominator of 24.

$\frac{1}{6} = \frac{\bullet}{24}$, so $\frac{1}{6} = \frac{4}{24}$. ($\times 4$)

$\frac{2}{3} = \frac{\bullet}{24}$, so $\frac{2}{3} = \frac{16}{24}$. ($\times 8$)

$\frac{1}{4} = \frac{\bullet}{24}$, so $\frac{1}{4} = \frac{6}{24}$. ($\times 6$)

$\frac{3}{8} = \frac{\bullet}{24}$, so $\frac{3}{8} = \frac{9}{24}$. ($\times 3$)

The order of the fractions from least to greatest is $\frac{1}{6}, \frac{1}{4}, \frac{3}{8}, \frac{2}{3}$.

EXERCISES

Replace each ● with <, >, or = to make a true sentence.

1. $\frac{5}{12}$ ● $\frac{3}{8}$
2. $\frac{6}{8}$ ● $\frac{3}{4}$
3. $\frac{2}{7}$ ● $\frac{1}{6}$

Order the fractions from least to greatest.

4. $\frac{3}{4}, \frac{3}{8}, \frac{1}{2}, \frac{1}{4}$
5. $\frac{2}{3}, \frac{1}{6}, \frac{5}{18}, \frac{7}{9}$
6. $\frac{1}{2}, \frac{5}{6}, \frac{5}{8}, \frac{5}{12}$

NAME _____ DATE _____ PERIOD _____

5-5

Practice: Word Problems

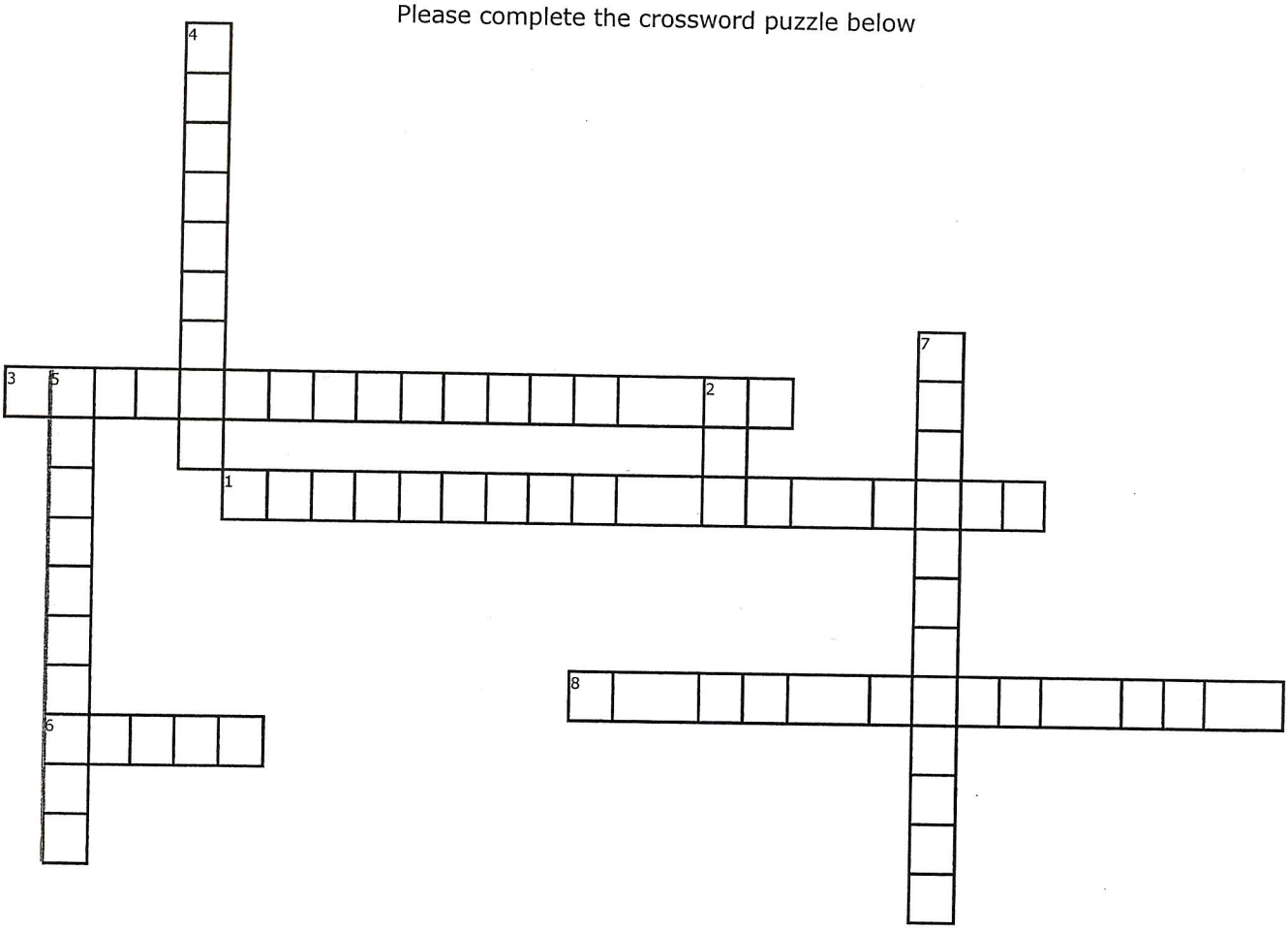
Comparing and Ordering Fractions

1. **SHOES** Toya is looking in her closet. If $\frac{1}{3}$ of her shoes are black and $\frac{2}{5}$ are brown, does she have more black shoes or more brown shoes? Explain.	2. **BUDGET** Daniel spends $\frac{3}{7}$ of his money on rent and $\frac{4}{9}$ of his money on food. Does he spend more money on food or rent? Explain.
3. **WOODWORKING** Isi drilled a hole that is $\frac{5}{9}$ inch wide. She has a screw that is $\frac{5}{6}$ inch wide. Is the hole wide enough to fit the screw? Explain.	4. **FOOD** In a recent survey, $\frac{2}{5}$ of the people surveyed said their favorite food was pizza, $\frac{1}{4}$ said it was hot dogs, and $\frac{3}{10}$ said it was popcorn. Which food was favored by the greatest number of people? Explain.
5. **OFFICE SUPPLIES** A blue paper clip is $\frac{1}{6}$ inch wide. A silver paper clip is $\frac{3}{8}$ inch wide, and a red paper clip is $\frac{1}{3}$ inch wide. What color paper clip has the smallest width? Explain.	6. **GUMBALLS** A red gumball is $\frac{5}{8}$ inch across. A green gumball is $\frac{5}{6}$ inch across, and a blue gumball is $\frac{7}{9}$ inch across. List the gumballs in order from smallest to largest.

Name: _____

S.O.L. 6.4 Comparing and Ordering Fractions, Decimals, and Percents

Please complete the crossword puzzle below



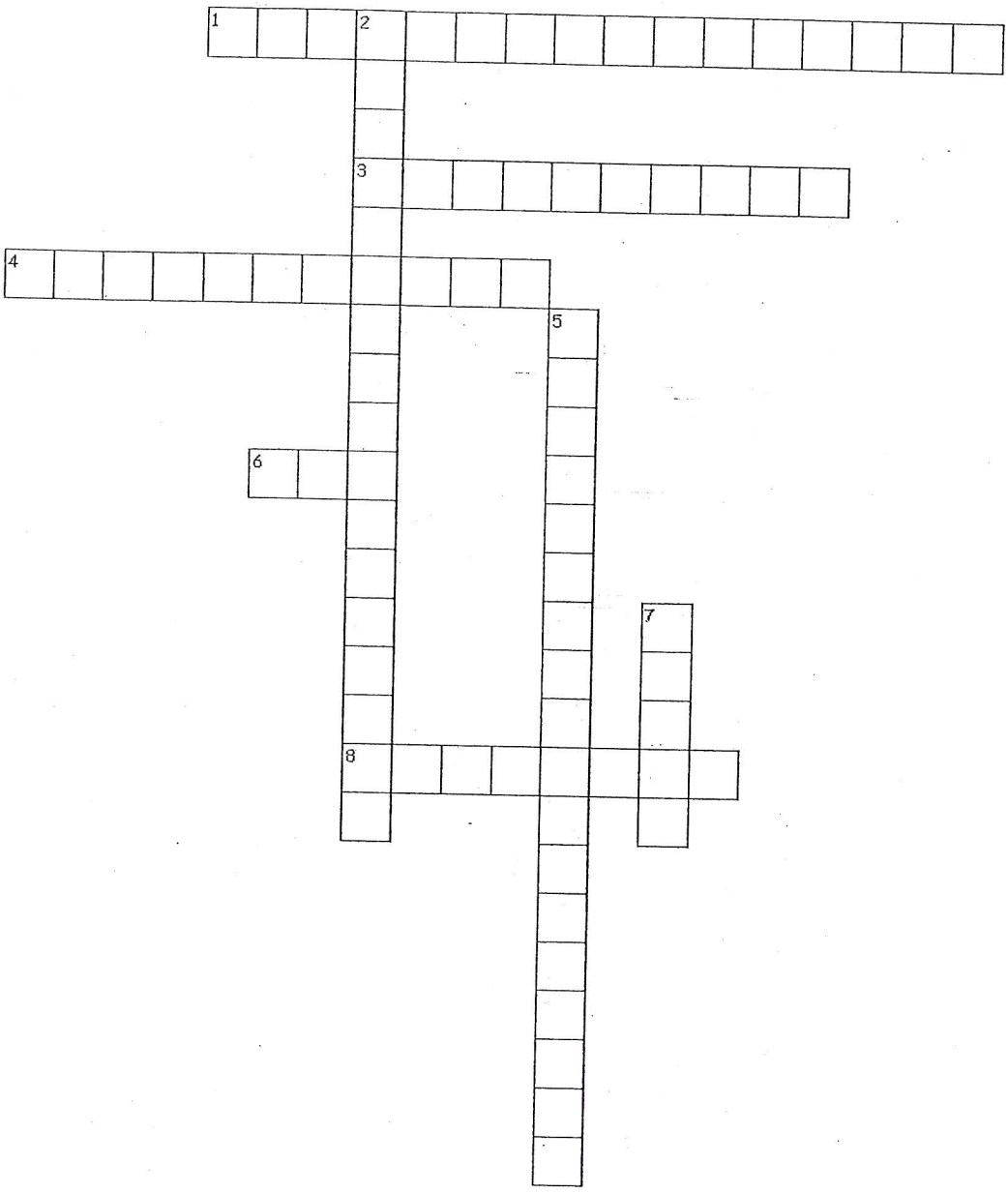
Across:

1. Fraction that represent the same quotient but have different numerators and denominators.
3. A decimal in which a digit or set of digits repeat infinitely.
6. Exactly the same amount or value.
8. A fraction in which the numerator is larger than the denominator.

Down:

2. (Least Common Denominator) The least common multiple of the denominators of two or more fractions.
4. Smaller. The symbol < means less than.
5. Equal in value.
7. Bigger. The symbol > means greater than.

SOL 6.4 Fractions, Decimals, and Percents



Across
1. A fraction in which the numerator is larger than the denominator.
3. equal in value
4. What does this symbol stand for? >
6. The least common multiple of the denominators of two or more fractions.
8. What does this symbol stand for? <

Down
2. A decimal in which a digit or set of digits repeat infinitely.
5. Fraction that represent the same quotient but have different numerators and denominators.
7. Exactly the same amount or value.

8 of 8 words were placed into the puzzle.

Name _____ Period _____

Sixth Grade Vocabulary
S.O. L. 6.4 – Comparing and Ordering Fractions, Decimals, and Percents

1. _____ a decimal in which a digit or set of digits repeat infinitely

2. _____ fraction that represent the same quotient but have different numerators and denominators.

3_____ the least common multiple of the denominators of two or more fractions.

4._____ a fraction in which the numerator is greater than the denominator.

5. _____ equal in value

6. _____ Bigger. The symbol > means greater than (the symbol < means less than).

Example: 5 > 3 shows that 5 is greater than 3

7. _____ Smaller. A symbol used to show that one number is smaller than another. The symbol < means Less than (the symbol > means greater than).

Example: 4 < 9 shows that 4 is Less than 9

8. _____ Exactly the same amount or value

Examples: 3 + 4 = 7; 1 Dollar is Equal to 100

Less Than **Repeating Decimal** **Equal** **Equivalent Fraction**
Greater Than **Least Common Denominator** **Improper Fraction**
Equivalent

Name _____ 6.4

Comparing and Ordering Decimals

Write >, <, or = for each ◯.

1. 6.5 ◯ 6.4
2. 0.93 ◯ 0.94
3. 6.3 ◯ 6.30
4. 0.864 ◯ 8.60
5. 9.02 ◯ 9.20
6. 7.51 ◯ 7.5
7. 6.18 ◯ 6.20
8. 12.6 ◯ 2.6
9. 0.008 ◯ 0.0080
10. 0.3 ◯ 0.03
11. 0.867 ◯ 0.868
12. 6.0830 ◯ 6.038
13. 2.400 ◯ 2.5
14. 0.52 ◯ 0.6
15. 11.060 ◯ 11.06
16. 0.204 ◯ 0.209
17. 5.2 ◯ 5.1999
18. 3.0465 ◯ 3.0645
19. 20.6 ◯ 20.66
20. 1.1406 ◯ 1.146
21. 20.06 ◯ 20.66
22. 1.1604 ◯ 1.164
23. 8.062 ◯ 8.026
24. 14.602 ◯ 14.62
25. 0.777 ◯ 0.0777
26. 83.2 ◯ 83
27. 6.419 ◯ 6.42
28. 0.003 ◯ 0.030
29. 7.2 ◯ 7.20
30. 45.3 ◯ 45.28

Order each set of decimals from least to greatest.

31. 0.684, 0.532, 0.584, 0.632, 0.588

_____

32. 0.03, 0.0359, 0.001, 0.0412, 0.0019

_____

33. 0.304, 0.400, 0.430, 0.380, 0.404

_____

Representing, Comparing, and Ordering Decimals

Lesson Objectives

Write, compare, and order decimals using place value and number lines

Additional Examples

Example 1

Write each decimal in standard form, expanded form, and words.

A. 1.07

Expanded form: 1 + _____

Word form: one and seven _____

B. 0.03 + 0.006 + 0.0009

Standard form: _____

Word form: three hundred sixty-nine _____

Example 2

The star Wolf 359 has an apparent magnitude of 13.5. Suppose another star has an apparent magnitude of 13.05. Which star has the smaller magnitude?

1 3. 5 0 Line up the decimal points.

1 3. 0 5 Start from the _____ and compare the digits.

Look for the _____ place where the digits are different.

0 is less than 5.

_____ < _____

The star that has an apparent magnitude of _____ has the smaller magnitude.

NAME_____
MATH PERIOD_____
DATE_____

6.4 NOTES

*The decimal point is a symbol that indicates the location of the ones place and all other subsequent place values in the decimal system. (Example 1.34)

*The decimal point separates a whole number amount from a number that is less than one.

*Decimals can be represented and compared, using decimal manipulatives, drawings, pictures, or symbols.

*Fractions can be represented and compared by using fraction manipulatives, drawings, pictures, or symbols.

= Equal to
< Less than
>Greater than

NAME _____ DATE _____ PERIOD ____

3-2

Study Guide and Intervention

Comparing and Ordering Decimals

EXAMPLE 1 **Use > or < to compare 68.563 and 68.5603.**

First, line up the decimal points. Then, starting at the left, find the first place the digits differ. Compare the digits. Since 3 > 0,

68.563
68.5603

3 > 0

68.563 > 68.5603

So, 68.563 is greater than 68.5603.

EXAMPLE 2 **Order 4.073, 4.73, 4.0073, and 4 from least to greatest.**

First, line up the decimal points. Annex zeros so that each has the same number of decimal places. Use place value to compare and order the decimals.

4.073	4.0730	4.0000
4.73	4.7300	4.0073
4.0073	4.0073	4.0730
4	4.0000	4.7300

The order from least to greatest is 4, 4.0073, 4.073, and 4.73.

EXERCISES

Use >, <, or = to compare each pair of decimals.

1. 4.08 ● 4.080
2. 0.001 ● 0.01
3. 23.659 ● 22.659
4. 50.031 ● 50.030
5. 7 ● 7.0001
6. 18.01 ● 18.010

Order each set of decimals from least to greatest.

7. 0.006, 0.6, 0.060, 6
8. 456.73, 465.32, 456.37, 456.23
9. 3.01, 3.009, 3.09, 3.0001
10. 45.333, 45.303, 45.03, 45.003, 45.0003

NAME _____ DATE _____ PERIOD ____

3-2 Practice: Word Problems

Comparing and Ordering Decimals

MUSIC For Exercises 1–4, use the table.

The table shows the percent of the music market for each type of music.

Music Industry Sales Statistics, 2001	
Type of Music	**Percent of Market**
Pop	12.1
Country	10.5
Rock	24.4
Rap/Hip-Hop	11.4
R&B	10.6

1. Use > or < to compare the percents for pop and rap/hip-hop. Which is greater?

2. Use > or < to compare the percents for country and R&B. Which is greater?

3. If you owned a store that sells CDs, which kind of music would you want to sell, based on the table? Explain.

4. Suppose children's songs have 12.05 percent of the market. Is this greater or less than the percent for pop music? Explain.

5. CONSTRUCTION Alberto is setting out four boards of lumber. The lengths of the boards are 4.5 feet, 4.52 feet, 4 feet, and 4.505 feet. Order the lengths from longest to shortest.

6. CONSTRUCTION Ella set out a board of pine lumber that was 0.8 feet long and a board of cedar lumber that was 0.80 feet long. Alberto said the cedar board was longer. Is he correct? Explain.

SOL 6.4

1. Which of the following statements is true?

A $4.340 = 4.034$
B $43.40 > 403.4$
C $4.340 < 4.034$
D $4.340 > 4.034$

2. Which of the following statements is true?

A $90.03 = 90.3$
B $90.03 < 90.03$
C $90.03 < 90.30$
D $90.03 > 90.3$

3. Compare: $\frac{2}{6}$ ___ $\frac{2}{3}$

A $<$
B $>$
C $=$

4. Compare: $\frac{29}{30}$ ___ $\frac{7}{8}$

A $<$
B $>$
C $=$

5. Which group is in order from least to greatest?

A $\frac{29}{12} < 4\frac{1}{2} < \frac{33}{6}$

B $\frac{33}{6} < 4\frac{1}{2} < \frac{29}{12}$

C $4\frac{1}{2} < \frac{33}{6} < \frac{29}{12}$

D $\frac{33}{6} < \frac{29}{12} < 4\frac{1}{2}$

6. Order these values from greatest to least.

A 5.01, 5.1, 5.11
B 5.11, 5.1, 5.01
C 5.1, 5.01, 5.11
D 5.01, 5.11, 5.1

7. Which of the following is ordered from least to greatest?

A 1562.5, 1652.6, 1565.2
B 1789.008, 1789.08, 1789.8
C $47\frac{1}{2}, 47\frac{3}{8}, 47\frac{3}{4}$
D 0.001, 0.1, 0.01

8. Which of the following statements is true?

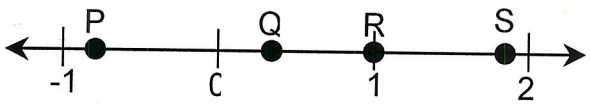
A $10 = \frac{110}{10}$

B $\frac{1000}{10} > 9.9$

C $2\frac{75}{100} < 2.75$

D $\frac{100}{10} < 9.9$

9. If you multiply any two positive fractions less than 1, which statement is true?



A The answer could be P.
B The answer could be Q.
C The answer could be R.
D **The answer could be S.**

10. Mrs. Austin wrote the four inequalities shown below on the classroom board. Only one of them is correct. Which inequality is correct?

A $\frac{6}{12} > \frac{1}{2}$

B $\frac{5}{11} < \frac{5}{10}$

C $\frac{4}{8} > \frac{4}{6}$

D $\frac{2}{3} < \frac{4}{6}$

11. Compare: $\frac{4}{9} \bigcirc \frac{4}{7}$

A $\frac{4}{9} = \frac{4}{7}$

B $\frac{4}{9} > \frac{4}{7}$

C $\frac{4}{9} < \frac{4}{7}$

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12. Which statement is true?

A $\frac{18}{25} > \frac{24}{31}$

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15. Which of the following is true?

A. $0.16 < 0.016$

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A $90.03 = 90.3$
B $90.03 < 90.03$
C $90.03 < 90.30$
D $90.03 > 90.3$

3. Compare: $\frac{2}{6}$ ___?___ $\frac{2}{3}$

A $<$
B $>$
C $=$

4. Compare: $\frac{29}{30}$ ___?___ $\frac{7}{8}$

A $<$
B $>$
C $=$

5. Which group is in order from least to greatest?

A $\frac{29}{12} < 4\frac{1}{2} < \frac{33}{6}$

B $\frac{33}{6} < 4\frac{1}{2} < \frac{29}{12}$

C $4\frac{1}{2} < \frac{33}{6} < \frac{29}{12}$

D $\frac{33}{6} < \frac{29}{12} < 4\frac{1}{2}$

6. Order these values from greatest to least.

A 5.01, 5.1, 5.11
B 5.11, 5.1, 5.01
C 5.1, 5.01, 5.11
D 5.01, 5.11, 5.1

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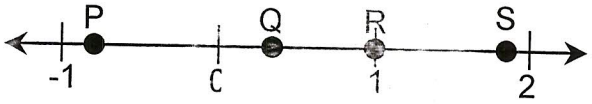

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B $\frac{4}{9} > \frac{4}{7}$

C $\frac{4}{9} < \frac{4}{7}$

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A $\frac{4}{6} = \frac{4}{7}$

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15. Which of the following is true?

A. $0.16 < 0.016$

B. $5.065 < 5.65$

C. $2.804 < 2.408$

D. $5.83 < 0.583$

NAME _____ DATE _____ PERIOD ____

3-2

Practice: Skills

Comparing and Ordering Decimals

Use >, <, or = to compare each pair of decimals.

1. 2.4 ● 2.04
2. 6.23 ● 6.32
3. 0.02 ● 0.020
4. 12.05 ● 12.50
5. 0.92 ● 0.095
6. 39.21 ● 39.021
7. 0.849 ● 0.0851
8. 12.1 ● 12.10
9. 21.967 ● 2.1968
10. 0.0128 ● 0.128
11. 1.4601 ● 1.460
12. 19.08 ● 19.079
13. 28.003 ● 28.03
14. 0.831 ● 0.0835
15. 39.020 ● 39.0200
16. 15.6243 ● 15.6234
17. 12.0905 ● 12.10
18. 56.7 ● 5.67

Order each set of decimals from least to greatest.

19. 1.25, 1.52, 1.02, 1.50
20. 67.39, 68.004, 67.039, 67.04
21. 15.0421, 14.52, 14.521, 15.421
22. 0.0012, 0.0211, 0.0002, 0.0022

Order each set of decimals from greatest to least.

23. 4.99, 4.001, 5.0, 4.01
24. 12.0012, 120.012, 12.012, 12.12
25. 3.5, 3.05, 3.55, 3.555
26. 45.0, 40.5, 40.09, 49.5

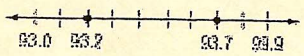
Lesson 3–2

Lesson 3-2

Example 1 Compare Decimals
WEIGHT On the same scale, Jeremy weighs 93.7 pounds and Jeffrey weighs 93.2 pounds. Use > or < to compare Jeremy's weight to Jeffrey's weight.

Method 1 Use place value.
Jeremy: 93.7
Jeffrey: 93.2
First, line up the decimal points. Then starting at the left, find the first place the digits differ. Compare the digits.
Since $7 > 2$, $93.7 > 93.2$. So, Jeremy's weight is greater than Jeffrey's weight.

Method 2 Use a number line.



Numbers to the right are greater than numbers to the left. Since 93.7 is to the right of 93.2, $93.7 > 93.2$.

Example 2 Order Decimals
Order 34.03, 34, 33.98, and 34.1 from least to greatest.

34.03 → 34.03
34 → 34.00
33.98 → 33.98
34.1 → 34.10
First, line up the decimal points.
Next, annex zeros so that each has the same number of decimal places.
Finally, use place value to compare the decimals.

The order from least to greatest is 33.98, 34, 34.03, and 34.1.

NAME _____ DATE _____ PERIOD ____

3-2

Practice: Word Problems

Comparing and Ordering Decimals

MUSIC For Exercises 1–4, use the table.

The table shows the percent of the music market for each type of music.

Music Industry Sales Statistics, 2001	
Type of Music	**Percent of Market**
Pop	12.1
Country	10.5
Rock	24.4
Rap/Hip-Hop	11.4
R&B	10.6

1. Use > or < to compare the percents for pop and rap/hip-hop. Which is greater?

2. Use > or < to compare the percents for country and R&B. Which is greater?

3. If you owned a store that sells CDs, which kind of music would you want to sell, based on the table? Explain.

4. Suppose children's songs have 12.05 percent of the market. Is this greater or less than the percent for pop music? Explain.

5. CONSTRUCTION Alberto is setting out four boards of lumber. The lengths of the boards are 4.5 feet, 4.52 feet, 4 feet, and 4.505 feet. Order the lengths from longest to shortest.

6. CONSTRUCTION Ella set out a board of pine lumber that was 0.8 feet long and a board of cedar lumber that was 0.80 feet long. Alberto said the cedar board was longer. Is he correct? Explain.

LESSON 1-1

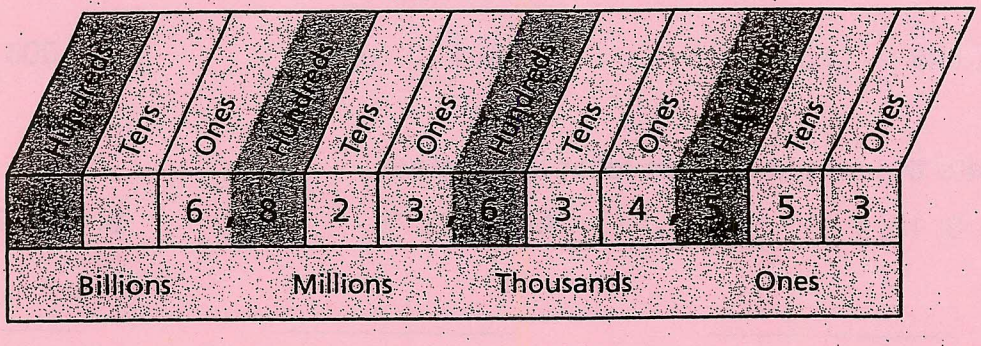
Comparing and Ordering Whole Numbers

Know It! Note

Lesson Objectives

Compare and order whole numbers using place value or a number line

Place Value



Additional Examples

Example 1

Belize's 2000 population was 249,183 people. Iceland's 2000 population was 276,365 people. Which country had more people?

Belize 249,183

Iceland 276,365

Start at the _____ and compare digits in the same place value position. Look for the _____ place where the values are different.

40 thousand is _____ than 70 thousand.

249,183 is _____ than 276,365.

_____ had more people.

Name _____ Date _____ Class _____

LESSON 1-1

Practice A

Comparing and Ordering Whole Numbers

Write <, >, or = to compare the numbers.

1. 8 ☐ 18
2. 43 ☐ 34
3. 100 ☐ 90
4. 295 ☐ 259
5. 706 ☐ 706
6. 1,006 ☐ 6,001

Write the numbers from least to greatest.

7. 3; 13; 1 _____
8. 88; 80; 78 _____
9. 104; 204; 102 _____
10. 75; 95; 59 _____
11. 642; 855; 658 _____
12. 274; 207; 740 _____

Write the numbers from greatest to least.

13. 10; 100; 11 _____
14. 36; 16; 63 _____
15. 28; 20; 80 _____
16. 500; 300; 305 _____
17. 593; 93; 59 _____
18. 184; 800; 481 _____

19. English is spoken in 47 countries around the world. French is spoken in 23 countries. Which language is spoken in the most countries?

_____

20. The United States–Mexico border is 1,933 miles long. The United States–Canada border is 3,987 miles long. Which border is longer?

_____

Example 2

Order the numbers from least to greatest.

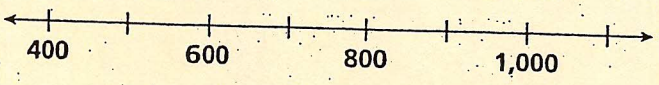
675; 1,044; 497

Graph the numbers on a number line:

The number _____ is between 600 and 700.

The number _____ is between 1,000 and 1,100.

The number _____ is between 400 and 500.



The numbers are ordered when you read the number line from _____ to _____.

The numbers in order from least to greatest are _____, _____, and _____.

Try This

1. **In 2000, the population of San Diego, California was 1,223,400 people. In 2000, the population of Dallas, Texas was 1,188,580 people. Which city had more people?**

_____

2. **Order the numbers from least to greatest.**
732, 923, 502

_____

NAME _____ DATE _____ PERIOD ____

5-5

Study Guide and Intervention

Comparing and Ordering Fractions

Lesson 5–5

To compare two fractions,

- Find the **least common denominator (LCD)** of the fractions; that is, find the least common multiple of the denominators.
- Rewrite each fraction as an equivalent fraction whose denominator is the LCD.
- Compare the numerators.

EXAMPLE 1 **Replace ● with <, >, or = to make $\frac{1}{3}$ ● $\frac{5}{12}$ true.**

- The LCM of 3 and 12 is 12. So, the LCD is 12.
- Rewrite each fraction with a denominator of 12.

$\frac{1}{3} = \frac{\bullet}{12}$, so $\frac{1}{3} = \frac{4}{12}$. ($\times 4$) $\qquad \frac{5}{12} = \frac{5}{12}$

- Now, compare. Since $4 < 5$, $\frac{4}{12} < \frac{5}{12}$. So $\frac{1}{3} < \frac{5}{12}$.

EXAMPLE 2 **Order $\frac{1}{6}$, $\frac{2}{3}$, $\frac{1}{4}$, and $\frac{3}{8}$ from least to greatest.**

The LCD of the fractions is 24. So, rewrite each fraction with a denominator of 24.

$\frac{1}{6} = \frac{\bullet}{24}$, so $\frac{1}{6} = \frac{4}{24}$. ($\times 4$)

$\frac{2}{3} = \frac{\bullet}{24}$, so $\frac{2}{3} = \frac{16}{24}$. ($\times 8$)

$\frac{1}{4} = \frac{\bullet}{24}$, so $\frac{1}{4} = \frac{6}{24}$. ($\times 6$)

$\frac{3}{8} = \frac{\bullet}{24}$, so $\frac{3}{8} = \frac{9}{24}$. ($\times 3$)

The order of the fractions from least to greatest is $\frac{1}{6}, \frac{1}{4}, \frac{3}{8}, \frac{2}{3}$.

EXERCISES

Replace each ● with <, >, or = to make a true sentence.

1. $\frac{5}{12}$ ● $\frac{3}{8}$
2. $\frac{6}{8}$ ● $\frac{3}{4}$
3. $\frac{2}{7}$ ● $\frac{1}{6}$

Order the fractions from least to greatest.

4. $\frac{3}{4}, \frac{3}{8}, \frac{1}{2}, \frac{1}{4}$
5. $\frac{2}{3}, \frac{1}{6}, \frac{5}{18}, \frac{7}{9}$
6. $\frac{1}{2}, \frac{5}{6}, \frac{5}{8}, \frac{5}{12}$

NAME _____ DATE _____ PERIOD ____

5-5 Practice: Word Problems

Comparing and Ordering Fractions

1. SHOES Toya is looking in her closet. If $\frac{1}{3}$ of her shoes are black and $\frac{2}{5}$ are brown, does she have more black shoes or more brown shoes? Explain.	**2. BUDGET** Daniel spends $\frac{3}{7}$ of his money on rent and $\frac{4}{9}$ of his money on food. Does he spend more money on food or rent? Explain.
3. WOODWORKING Isi drilled a hole that is $\frac{5}{9}$ inch wide. She has a screw that is $\frac{5}{6}$ inch wide. Is the hole wide enough to fit the screw? Explain.	**4. FOOD** In a recent survey, $\frac{2}{5}$ of the people surveyed said their favorite food was pizza, $\frac{1}{4}$ said it was hot dogs, and $\frac{3}{10}$ said it was popcorn. Which food was favored by the greatest number of people? Explain.
5. OFFICE SUPPLIES A blue paper clip is $\frac{1}{6}$ inch wide. A silver paper clip is $\frac{3}{8}$ inch wide, and a red paper clip is $\frac{1}{3}$ inch wide. What color paper clip has the smallest width? Explain.	**6. GUMBALLS** A red gumball is $\frac{5}{8}$ inch across. A green gumball is $\frac{5}{6}$ inch across, and a blue gumball is $\frac{7}{9}$ inch across. List the gumballs in order from smallest to largest.

Lesson 5-5

Example 1 Compare Fractions

Replace • with <, >, or = to make $\frac{7}{9} \bullet \frac{5}{6}$ true.

- First, find the LCD; that is, the LCM of the denominators. The LCM of 9 and 6 is 18. So, the LCD is 18.
- Next, rewrite each fraction with a denominator of 18.

$$\frac{7}{9} = \frac{7 \times 2}{9 \times 2} = \frac{14}{18} \qquad \frac{5}{6} = \frac{5 \times 3}{6 \times 3} = \frac{15}{18}$$

- Then compare. Since $14 < 15$, $\frac{14}{18} < \frac{15}{18}$. So, $\frac{7}{9} < \frac{5}{6}$.

Example 2 Order Fractions

Order the fractions $\frac{5}{8}, \frac{3}{4}, \frac{5}{6}$, and $\frac{1}{2}$ from least to greatest.

The LCD of the fractions is 24. So, rewrite each fraction with a denominator of 24.

$$\frac{5}{8} = \frac{5 \times 3}{8 \times 3} = \frac{15}{24} \qquad \frac{3}{4} = \frac{3 \times 6}{4 \times 6} = \frac{18}{24}$$

$$\frac{5}{6} = \frac{5 \times 4}{6 \times 4} = \frac{20}{24} \qquad \frac{1}{2} = \frac{1 \times 12}{2 \times 12} = \frac{12}{24}$$

The order of the fractions from least to greatest is $\frac{1}{2}, \frac{5}{8}, \frac{3}{4}, \frac{5}{6}$.

Example 3 Compare and Order Fractions
MULTIPLE-CHOICE TEST ITEM

According to a survey on music, $\frac{9}{25}$ of the people asked preferred jazz music, $\frac{11}{20}$ preferred rock music, and $\frac{9}{100}$ preferred classical music. Which type of music did most of the people prefer?

A jazz music
B rock music
C classical music
D cannot tell from the data

Read the Test Item You need to compare the fractions.

Solve the Test Item Rewrite the fractions with the LCD, 100.

$$\frac{9}{25} = \frac{9 \times 4}{25 \times 4} = \frac{36}{100} \qquad \frac{11}{20} = \frac{11 \times 5}{20 \times 5} = \frac{55}{100} \qquad \frac{9}{100} = \frac{9}{100}$$

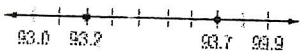
So, $\frac{55}{100}$ is the greatest fraction, and the answer is B.

Lesson 3-2

Example 1 Compare Decimals
WEIGHT On the same scale, Jeremy weighs 93.7 pounds and Jeffrey weighs 93.2 pounds. Use > or < to compare Jeremy's weight to Jeffrey's weight.

Method 1 Use place value.
Jeremy: 93.7
Jeffrey: 93.2
First, line up the decimal points. Then starting at the left, find the first place the digits differ. Compare the digits.
Since $7 > 2$, $93.7 > 93.2$. So, Jeremy's weight is greater than Jeffrey's weight.

Method 2 Use a number line.



Numbers to the right are greater than numbers to the left. Since 93.7 is to the right of 93.2, $93.7 > 93.2$.

Example 2 Order Decimals
Order 34.03, 34, 33.98, and 34.1 from least to greatest.

34.03 → 34.03
34 → 34.00
33.98 → 33.98
34.1 → 34.10
First, line up the decimal points. Next, annex zeros so that each has the same number of decimal places. Finally, use place value to compare the decimals.

The order from least to greatest is 33.98, 34, 34.03, and 34.1.

NAME _____ DATE _____ PERIOD _____

5-5

Practice: Skills

Comparing and Ordering Fractions

Replace each ● with <, >, or = to make a true sentence.

1. $\frac{2}{3}$ ● $\frac{3}{4}$
2. $\frac{3}{8}$ ● $\frac{6}{16}$
3. $\frac{5}{8}$ ● $\frac{7}{12}$
4. $\frac{1}{2}$ ● $\frac{6}{7}$
5. $\frac{3}{9}$ ● $\frac{1}{3}$
6. $\frac{1}{6}$ ● $\frac{9}{10}$
7. $\frac{5}{6}$ ● $\frac{7}{8}$
8. $\frac{5}{8}$ ● $\frac{5}{12}$
9. $\frac{4}{5}$ ● $\frac{2}{3}$
10. $\frac{6}{7}$ ● $\frac{4}{5}$
11. $\frac{5}{12}$ ● $\frac{3}{16}$
12. $\frac{3}{4}$ ● $\frac{2}{9}$
13. $\frac{5}{7}$ ● $\frac{7}{10}$
14. $\frac{2}{15}$ ● $\frac{1}{6}$
15. $\frac{5}{12}$ ● $\frac{2}{5}$
16. $\frac{3}{10}$ ● $\frac{5}{14}$
17. $\frac{4}{9}$ ● $\frac{3}{7}$
18. $\frac{3}{5}$ ● $\frac{5}{9}$
19. $\frac{1}{6}$ ● $\frac{2}{12}$
20. $\frac{7}{9}$ ● $\frac{4}{7}$
21. $\frac{9}{10}$ ● $\frac{11}{12}$
22. $\frac{1}{4}$ ● $\frac{2}{8}$
23. $\frac{8}{9}$ ● $\frac{7}{8}$
24. $\frac{2}{9}$ ● $\frac{4}{15}$

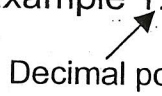
Order the fractions from least to greatest.

25. $\frac{3}{4}, \frac{2}{5}, \frac{5}{8}, \frac{1}{2}$
26. $\frac{1}{3}, \frac{2}{7}, \frac{3}{14}, \frac{1}{6}$
27. $\frac{2}{3}, \frac{4}{9}, \frac{5}{6}, \frac{7}{12}$
28. $\frac{4}{5}, \frac{2}{3}, \frac{13}{15}, \frac{7}{9}$
29. $\frac{11}{12}, \frac{5}{6}, \frac{3}{4}, \frac{9}{16}$
30. $\frac{7}{15}, \frac{3}{5}, \frac{5}{12}, \frac{1}{2}$

NAME_____
MATH PERIOD_____
DATE_____

6.4 NOTES

*The decimal point is a symbol that indicates the location of the ones place and all other subsequent place values in the decimal system. (Example 1.34)



*The decimal point separates a whole number amount from a number that is less than one.

*Decimals can be represented and compared, using decimal manipulatives, drawings, pictures, or symbols.

*Fractions can be represented and compared by using fraction manipulatives, drawings, pictures, or symbols.

= Equal to
< Less than
>Greater than

Name _____ Date _____ Class _____

LESSON 1-1

Practice B

Comparing and Ordering Whole Numbers

Compare. Write <, >, or =.

1. 69 ☐ 96
2. 117 ☐ 107
3. 958 ☐ 9,124
4. 3,567 ☐ 3,567
5. 18,443 ☐ 1,844
6. 64,209 ☐ 64,290

Order the numbers from least to greatest.

7. 58; 166; 85 _____
8. 115; 151; 111 _____
9. 269; 29; 96 _____
10. 308; 3,800; 3,080 _____
11. 1,864; 824; 1,648 _____
12. 4,663; 4,336; 43,666 _____

Order the numbers from greatest to least.

13. 35; 53; 13 _____
14. 807; 800; 708 _____
15. 249; 392; 248 _____
16. 555; 600; 535 _____
17. 7,320; 6,000; 6,305 _____
18. 999; 9,559; 5,995 _____

19. Delaware and Rhode Island are the two smallest states. Delaware covers 1,955 square miles, and Rhode Island covers 1,045 square miles. What is the smallest state in the United States?

_____

20. Vermont and Wyoming have the smallest populations in the United States. The population of Vermont is 608,827. The population of Wyoming is 493,782. Which state has the smallest population?

_____

Name _____ Date _____ Class _____

LESSON 1-1

Practice C

Comparing and Ordering Whole Numbers

Compare. Write <, >, or =.

1. 1,478 ☐ 1,748

2. 5,643 ☐ 5,643

3. 9,610 ☐ 10,961

4. 308,524 ☐ 3,854

Order the numbers from least to greatest.

5. 379; 79; 978

_____

6. 16,780; 17,847; 6,988

_____

7. 76,334; 47,961; 70,336

_____

8. 101,695; 19,568; 191,658

_____

Order the numbers from greatest to least.

9. 605; 560; 565

_____

10. 8,320; 8,063; 8,663

_____

11. 49,210; 49,000; 49,910

_____

12. 352,699; 353,963; 95,614

_____

13. Alaska, California, and Texas are the three largest states. Alaska covers 615,230 square miles. California covers 158,869 square miles. Texas covers 267,277 square miles. Write the states in order by size, from largest to smallest.

_____

14. California, New York, and Texas have the largest populations in the United States. Their populations are 33,871,648; 20,851,820; and 18,976,457. California has the largest population. More people live in Texas than in New York. What is each state's population?

_____

NAME _____ DATE _____ PERIOD ____

5-5

Practice: Skills

Comparing and Ordering Fractions

Replace each ● with <, >, or = to make a true sentence.

1. $\frac{2}{3}$ ● $\frac{3}{4}$
2. $\frac{3}{8}$ ● $\frac{6}{16}$
3. $\frac{5}{8}$ ● $\frac{7}{12}$
4. $\frac{1}{2}$ ● $\frac{6}{7}$
5. $\frac{3}{9}$ ● $\frac{1}{3}$
6. $\frac{1}{6}$ ● $\frac{9}{10}$
7. $\frac{5}{6}$ ● $\frac{7}{8}$
8. $\frac{5}{8}$ ● $\frac{5}{12}$
9. $\frac{4}{5}$ ● $\frac{2}{3}$
10. $\frac{6}{7}$ ● $\frac{4}{5}$
11. $\frac{5}{12}$ ● $\frac{3}{16}$
12. $\frac{3}{4}$ ● $\frac{2}{9}$
13. $\frac{5}{7}$ ● $\frac{7}{10}$
14. $\frac{2}{15}$ ● $\frac{1}{6}$
15. $\frac{5}{12}$ ● $\frac{2}{5}$
16. $\frac{3}{10}$ ● $\frac{5}{14}$
17. $\frac{4}{9}$ ● $\frac{3}{7}$
18. $\frac{3}{5}$ ● $\frac{5}{9}$
19. $\frac{1}{6}$ ● $\frac{2}{12}$
20. $\frac{7}{9}$ ● $\frac{4}{7}$
21. $\frac{9}{10}$ ● $\frac{11}{12}$
22. $\frac{1}{4}$ ● $\frac{2}{8}$
23. $\frac{8}{9}$ ● $\frac{7}{8}$
24. $\frac{2}{9}$ ● $\frac{4}{15}$

Order the fractions from least to greatest.

25. $\frac{3}{4}, \frac{2}{5}, \frac{5}{8}, \frac{1}{2}$
26. $\frac{1}{3}, \frac{2}{7}, \frac{3}{14}, \frac{1}{6}$
27. $\frac{2}{3}, \frac{4}{9}, \frac{5}{6}, \frac{7}{12}$
28. $\frac{4}{5}, \frac{2}{3}, \frac{13}{15}, \frac{7}{9}$
29. $\frac{11}{12}, \frac{5}{6}, \frac{3}{4}, \frac{9}{16}$
30. $\frac{7}{15}, \frac{3}{5}, \frac{5}{12}, \frac{1}{2}$

NAME _____ DATE _____ PERIOD _____

5-5

Practice: Word Problems

Comparing and Ordering Fractions

1. **SHOES** Toya is looking in her closet. If $\frac{1}{3}$ of her shoes are black and $\frac{2}{5}$ are brown, does she have more black shoes or more brown shoes? Explain.

2. **BUDGET** Daniel spends $\frac{3}{7}$ of his money on rent and $\frac{4}{9}$ of his money on food. Does he spend more money on food or rent? Explain.

3. **WOODWORKING** Isi drilled a hole that is $\frac{5}{9}$ inch wide. She has a screw that is $\frac{5}{6}$ inch wide. Is the hole wide enough to fit the screw? Explain.

4. **FOOD** In a recent survey, $\frac{2}{5}$ of the people surveyed said their favorite food was pizza, $\frac{1}{4}$ said it was hot dogs, and $\frac{3}{10}$ said it was popcorn. Which food was favored by the greatest number of people? Explain.

5. **OFFICE SUPPLIES** A blue paper clip is $\frac{1}{6}$ inch wide. A silver paper clip is $\frac{3}{8}$ inch wide, and a red paper clip is $\frac{1}{3}$ inch wide. What color paper clip has the smallest width? Explain.

6. **GUMBALLS** A red gumball is $\frac{5}{8}$ inch across. A green gumball is $\frac{5}{6}$ inch across, and a blue gumball is $\frac{7}{9}$ inch across. List the gumballs in order from smallest to largest.

NAME _____ DATE _____ PERIOD ____

5-6 Study Guide and Intervention

Writing Decimals as Fractions

Decimals like 0.58, 0.12, and 0.08 can be written as fractions.

To write a decimal as a fraction, you can follow these steps.

- Identify the place value of the last decimal place.
- Write the decimal as a fraction using the place value as the denominator.
- If necessary, simplify the fraction.

EXAMPLE 1 **Write 0.5 as a fraction in simplest form.**

$0.5 = \frac{5}{10}$ 0.5 means five tenths.

$= \frac{\overset{1}{\cancel{5}}}{\underset{2}{\cancel{10}}}$ Simplify. Divide the numerator and denominator by the GCF, 5.

$= \frac{1}{2}$ So, in simplest form, 0.5 is $\frac{1}{2}$.

EXAMPLE 2 **Write 0.35 as a fraction in simplest form.**

$0.35 = \frac{35}{100}$ 0.35 means 35 hundredths.

$= \frac{\overset{7}{\cancel{35}}}{\underset{20}{\cancel{100}}}$ Simplify. Divide the numerator and denominator by the GCF, 5.

$= \frac{7}{20}$ So, in simplest form, 0.35 is $\frac{7}{20}$.

EXAMPLE 3 **Write 4.375 as a mixed number in simplest form.**

$4.375 = 4\frac{375}{1{,}000}$ 0.375 means 375 thousandths.

$= 4\frac{\overset{3}{\cancel{375}}}{\underset{8}{\cancel{1{,}000}}}$ Simplify. Divide by the GCF, 125.

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

EXERCISES

Write each decimal as a fraction or mixed number in simplest form.

1. 0.9	**2.** 0.8	**3.** 0.27	**4.** 0.75
5. 0.34	**6.** 0.125	**7.** 0.035	**8.** 0.008
9. 1.4	**10.** 3.6	**11.** 6.28	**12.** 2.65
13. 12.05	**14.** 4.004	**15.** 23.205	**16.** 51.724

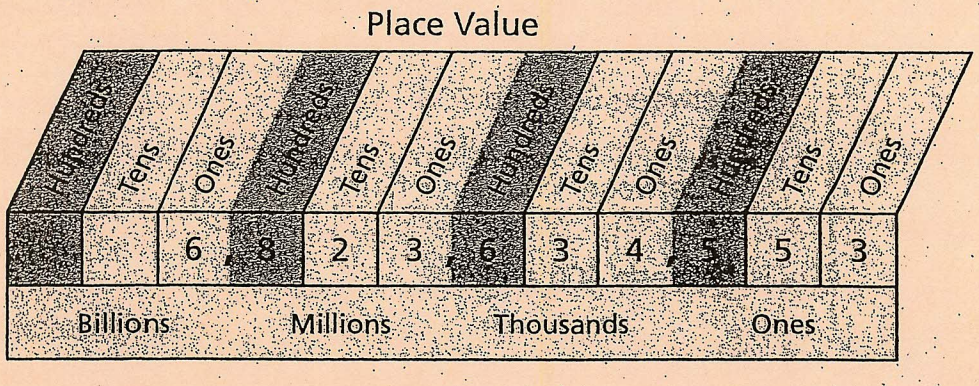
LESSON 1-1

Comparing and Ordering Whole Numbers

Know It! Note

Lesson Objectives

Compare and order whole numbers using place value or a number line



Additional Examples

Example 1

Belize's 2000 population was 249,183 people. Iceland's 2000 population was 276,365 people. Which country had more people?

Belize 2 4 9, 1 8 3

Iceland 2 7 6, 3 6 5

Start at the _____ and compare digits in the same place value position. Look for the _____ place where the values are different.

40 thousand is _____ than 70 thousand.

249,183 is _____ than 276,365.

_____ had more people.

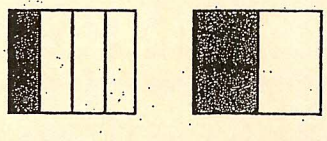
Comparing fractions

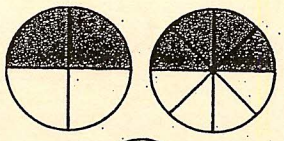
Name _____

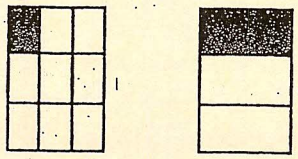
Shading the Facts

Identify each fraction. Compare using >, <, and =.

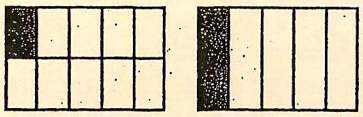
A.

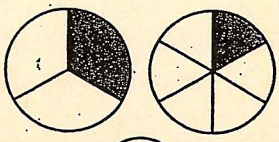


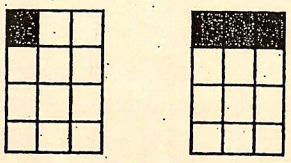




B.







C. $\frac{1}{4}$ ◯ $\frac{1}{2}$ $\frac{6}{8}$ ◯ $\frac{1}{2}$ $\frac{4}{5}$ ◯ $\frac{6}{10}$ $\frac{1}{8}$ ◯ $\frac{1}{3}$

D. $\frac{1}{3}$ ◯ $\frac{1}{5}$ $\frac{2}{8}$ ◯ $\frac{1}{5}$ $\frac{1}{9}$ ◯ $\frac{1}{4}$ $\frac{1}{11}$ ◯ $\frac{1}{5}$

E. $\frac{1}{4}$ ◯ $\frac{1}{3}$ $\frac{1}{5}$ ◯ $\frac{1}{6}$ $\frac{2}{4}$ ◯ $\frac{1}{2}$ $\frac{3}{8}$ ◯ $\frac{1}{8}$

Name _____

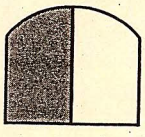
Practice
10-8

What is a Percent?

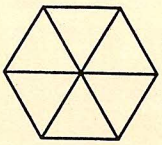
Give the percent of each figure that is shaded.

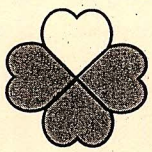
1. _____ 

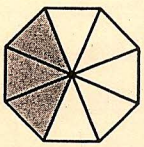
2. _____ 

3. _____ 

4. _____ 

5. _____ 

6. _____ 

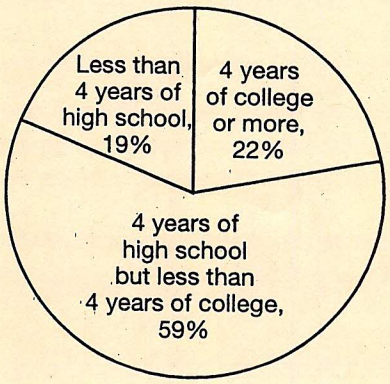
7. _____ 

8. _____ 

9. _____ 

The circle graph shows the educational attainment of Americans over 25 years old in 1994. Use the graph for Exercises 10–12.

Educational Attainment of Americans



10. What percent of the population has completed

less than 4 years of high school? _____

4 years of high school or more? _____

11. Which category includes the highest percent of Americans over 25?

_____

What is the percent? _____

12. Which two categories combined amount for 41% of Americans over 25?

_____

13. Geography 22% of the land in Vietnam is arable (suitable for farming). What percent is not arable?

_____