Name _____ Date _____ Class _____

Practice B
Decimals and Fractions

Write each decimal as a fraction or mixed number.

1. 0.23

2. 0.1

3. 3.25

_____

_____

_____

4. $1.\overline{3}$

5. 5.5

6. 3.7

_____

_____

_____

Write each fraction or mixed number as a decimal.

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

8. $\frac{1}{9}$

9. $1\frac{2}{3}$

_____

_____

_____

10. $3\frac{3}{5}$

11. $2\frac{1}{3}$

12. $\frac{8}{9}$

_____

_____

_____

Order the fractions and decimals from least to greatest.

13. $\frac{1}{4}$, 0.7, $\frac{3}{5}$

14. 0.25, $\frac{1}{8}$, 0.3

15. $\frac{9}{10}$, 0.49, $\frac{1}{2}$

_____

_____

_____

Order the fractions and decimals from greatest to least.

16. 0.13, $\frac{1}{10}$, 0.9

17. $\frac{2}{5}$, 0.7, $\frac{2}{3}$

18. 0.65, $\frac{4}{5}$, $\frac{3}{4}$

_____

_____

_____

19. Derrick has a dollar bill and three dimes, Jane has a dollar bill
and one quarter, and Kelly has a dollar bill and ten nickels. Who
has the most money? the least?

_____

20. It rained three and one half inches in April. In May it rained
$3\frac{3}{4}$ inches, and in June it rained 3.6 inches. Write the months
in order from the greatest to the least amount of rain.

_____

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Write each decimal as a fraction or mixed number.

1. 0.5
$\frac{5}{10}$ or $\frac{1}{2}$

2. 0.25
$\frac{25}{100}$ or $\frac{1}{4}$

3. 0.75
$\frac{75}{100}$ or $\frac{3}{4}$

4. 0.4
$\frac{4}{10}$ or $\frac{2}{5}$

5. 0.8
$\frac{8}{10}$ or $\frac{4}{5}$

6. 1.2
$1\frac{2}{10}$ or $1\frac{1}{5}$

Write each fraction or mixed number as a decimal.

7. $\frac{3}{10}$
0.3

8. $\frac{1}{2}$
0.5

9. $\frac{1}{4}$
0.25

10. $1\frac{3}{4}$
1.75

11. $\frac{3}{5}$
0.6

12. $1\frac{2}{5}$
1.4

Circle the letter of the best answer.

13. Which of the following sets is written in order from least to greatest?

A 0.5, $\frac{1}{4}$, 0.75

B 0.4, $\frac{7}{10}$, 0.6

C $\frac{1}{4}$, 0.5, 0.75

D $\frac{7}{10}$, 0.4, 0.6

14. Which of the following sets is written in order from greatest to least?

F $\frac{1}{3}$, $1\frac{1}{2}$, $1\frac{3}{4}$

G $\frac{2}{5}$, $0.\overline{3}$, 0.3

H $1\frac{1}{2}$, $1\frac{3}{4}$, $1\frac{1}{3}$

J 0.3, $0.\overline{3}$, $\frac{2}{5}$

15. At Franklin Elementary School, $\frac{2}{3}$ of all the students attended the chorus recital on Thursday. On Friday, $\frac{3}{4}$ of all the students attended the basketball game. Which event had the highest attendance?

the basketball game

16. Each of the Girl Scout troops was given the same number of cookies to sell. Tina's troop sold 0.25 of its cookies. Chantall's Girl Scout troop sold half of its cookies. Which troop sold the most cookies?

Chantall's troop

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Write each decimal as a fraction or mixed number.

1. 0.23
$\frac{23}{100}$

2. 0.1
$\frac{1}{10}$

3. 3.25
$3\frac{25}{100}$ or $3\frac{1}{4}$

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

5. 5.5
$5\frac{5}{10}$ or $5\frac{1}{2}$

6. 3.7
$3\frac{7}{10}$

Write each fraction or mixed number as a decimal.

7. $\frac{4}{5}$
0.8

8. $\frac{1}{9}$
$0.\overline{1}$

9. $1\frac{2}{3}$
$1.\overline{6}$

10. $3\frac{3}{5}$
3.6

11. $2\frac{1}{3}$
$2.\overline{3}$

12. $\frac{8}{9}$
$0.\overline{8}$

Order the fractions and decimals from least to greatest.

13. $\frac{1}{4}$, 0.7, $\frac{3}{5}$
$\frac{1}{4}$, $\frac{3}{5}$, 0.7

14. 0.25, $\frac{1}{8}$, 0.3
$\frac{1}{8}$, 0.25, 0.3

15. $\frac{9}{10}$, 0.49, $\frac{1}{2}$
0.49, $\frac{1}{2}$, $\frac{9}{10}$

Order the fractions and decimals from greatest to least.

16. 0.13, $\frac{1}{10}$, 0.9
0.9, 0.13, $\frac{1}{10}$

17. $\frac{2}{5}$, 0.7, $\frac{2}{3}$
0.7, $\frac{2}{3}$, $\frac{2}{5}$

18. 0.65, $\frac{4}{5}$, $\frac{3}{4}$
$\frac{4}{5}$, $\frac{3}{4}$, 0.65

19. Derrick has a dollar bill and three dimes, Jane has a dollar bill and one quarter, and Kelly has a dollar bill and ten nickels. Who has the most money? the least?

Kelly has the most, and Jane has the least.

20. It rained three and one half inches in April. In May it rained $3\frac{3}{4}$ inches, and in June it rained 3.6 inches. Write the months in order from the greatest to the least amount of rain.

May, June, April

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Write each decimal as a fraction or mixed number.

1. 0.97
$\frac{97}{100}$

2. 2.03
$2\frac{3}{100}$

3. 56.1
$56\frac{1}{10}$

4. $6.\overline{6}$
$6\frac{2}{3}$

5. 7.53
$7\frac{53}{100}$

6. 12.009
$12\frac{9}{1,000}$

Write each fraction or mixed number as a decimal.

7. $1\frac{8}{9}$
$1.\overline{8}$

8. $\frac{1}{12}$
$0.083\overline{3}$

9. $2\frac{7}{100}$
2.07

10. $\frac{31}{500}$
0.062

11. $\frac{17}{20}$
0.85

12. $\frac{5}{11}$
$0.\overline{45}$

Order the fractions and decimals from least to greatest.

13. 0.83, $\frac{7}{8}$, $\frac{4}{5}$
$\frac{4}{5}$, 0.83, $\frac{7}{8}$

14. $\frac{9}{11}$, 0.9, $\frac{5}{6}$
$\frac{9}{11}$, $\frac{5}{6}$, 0.9

15. $4\frac{2}{3}$, $4.\overline{2}$, $4\frac{3}{11}$
4.2, $4\frac{3}{11}$, $4\frac{2}{3}$

Order the fractions and decimals from greatest to least.

16. $\frac{3}{10}$, $\frac{27}{100}$, $\frac{1}{3}$
$\frac{1}{3}$, $\frac{3}{10}$, $\frac{27}{100}$

17. $\frac{8}{12}$, $\frac{3}{4}$, 0.71
$\frac{3}{4}$, 0.71, $\frac{8}{12}$

18. $\frac{19}{20}$, $\frac{97}{100}$, 0.99
0.99, $\frac{97}{100}$, $\frac{19}{20}$

19. Shawn has 3.65 cups of sugar and 1.9 cups of flour. He needs $3\frac{2}{3}$ cups of sugar and $1\frac{7}{8}$ cups of flour to make cookies. Does he have enough of each ingredient?

He has enough flour, but not enough sugar.

20. This week, Katie ran $12\frac{11}{12}$ miles, Sandra ran 12.91 miles, and Tameeka ran $12\frac{9}{10}$ miles. Who ran the most miles this week? the least?

Katie ran the most, and Tameeka ran the least.

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You can write decimals as fractions or mixed numbers. A place value chart will help you read the decimal. Remember the decimal point is read as the word "and."

To write 0.47 as a fraction, first think about the decimal in words.

Ones	Tenths	Hundredths	Thousandths	Ten Thousandths
0	4	7		

0.47 is read "forty-seven hundredths." The place value of the decimal tells you the denominator is 100.

$0.47 = \frac{47}{100}$

To write 8.3 as a mixed number, first think about the decimal in words.

Ones	Tenths	Hundredths	Thousandths	Ten Thousandths
8	3			

8.3 is read "eight and three tenths." The place value of the decimal tells you the denominator is 10. The decimal point is read as the word "and."

$8.3 = 8\frac{3}{10}$

Write each decimal as a fraction or mixed number.

1. 0.61
$\frac{61}{100}$

2. 3.43
$3\frac{43}{100}$

3. 0.009
$\frac{9}{1,000}$

4. 4.7
$4\frac{7}{10}$

5. 1.5
$1\frac{5}{10}$ or $1\frac{1}{2}$

6. 0.13
$\frac{13}{100}$

7. 5.002
$5\frac{2}{1,000}$ or $5\frac{1}{500}$

8. 0.021
$\frac{21}{1,000}$

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