

Extra Practice 1

Lesson 1: Tenths and Hundredths

1. Write each fraction or mixed number as a decimal.

a) $\frac{17}{100}$

b) $4\frac{3}{10}$

c) $\frac{2}{100}$

d) $\frac{9}{10}$

e) $\frac{99}{100}$

f) $41\frac{7}{100}$

2. Write each decimal as a fraction or mixed number.

a) 17.02

b) 8.4

c) 0.13

d) 1.34

e) 0.91

f) 6.7

3. Use the numbers 3, 6, and 9.
Make as many decimals as you can.

Lesson 2: Equivalent Decimals

1. Colour hundredths grids to show each decimal.

Write an equivalent decimal.

a) 1.6

b) 0.40

c) 2.1

2. Write an equivalent decimal for each decimal.

a) 9.70

b) 4.3

c) 2.20

d) 0.8

e) 0.10

f) 18.5

3. Circle the equivalent decimals in each group.

a) 0.3 0.30 0.03

b) 2.01 2.1 2.10

c) 9.7 9.70 9.07

d) 15.3 15.03 15.30

Lesson 3: Exploring Thousandths

1. Write each number as a decimal.

a) $\frac{291}{1000}$

b) $4\frac{173}{1000}$

c) $6\frac{8}{1000}$

d) $19\frac{3}{100}$

e) $\frac{17}{1000}$

f) $4\frac{6}{10}$

2. Write each decimal as a fraction or mixed number.

a) 0.436

b) 5.016

c) 13.004

d) 10.102

e) 7.019

f) 4.3

Lesson 4: Comparing and Ordering Decimals

1. Use $>$, $<$, or $=$.

a) $2.537 \square 2.58$

b) $0.607 \square 0.601$

c) $1.42 \square 1.413$

d) $2.6 \square 2.600$

2. Order the numbers from greatest to least.

a) 0.439, 1.004, 0.37

b) 2.83, 1.9, 0.297

c) 6.237, 6.019, 6.284

d) 3.105, 3.6, 5.12

3. Write a number between 2.358 and 2.361.

Lesson 5: Rounding Decimals

1. Round to the nearest whole number.

- | | | | |
|----------|-----------|----------|----------|
| a) 3.764 | b) 0.635 | c) 7.014 | d) 2.535 |
| e) 1.862 | f) 17.412 | g) 3.5 | h) 6.28 |

2. Round to the nearest tenth.

- | | | | |
|----------|-----------|----------|----------|
| a) 8.64 | b) 7.235 | c) 0.062 | d) 7.317 |
| e) 17.68 | f) 145.25 | g) 1.423 | h) 8.004 |

3. Round to the nearest hundredth.

- | | | | |
|-----------|----------|----------|-----------|
| a) 3.456 | b) 7.318 | c) 6.994 | d) 33.333 |
| e) 18.024 | f) 2.587 | g) 0.328 | h) 1.451 |

Lesson 6: Estimating Sums and Differences

1. Estimate each sum.

- | | | |
|--------------------|--------------------|--------------------|
| a) $8.1 + 7.2$ | b) $6.51 + 4.03$ | c) $7.358 + 2.71$ |
| d) $4.758 + 3.164$ | e) $0.943 + 0.995$ | f) $3.568 + 2.541$ |

2. Estimate each difference.

- | | | |
|--------------------|--------------------|--------------------|
| a) $26.18 - 20.92$ | b) $5.384 - 2.111$ | c) $8.43 - 2.251$ |
| d) $2.205 - 0.973$ | e) $6.275 - 1.184$ | f) $7.042 - 3.962$ |

Lesson 7: Adding and Subtracting Decimals

1. Add.

a)
$$\begin{array}{r} 2.68 \\ + 9.34 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 29.368 \\ + 84.975 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 0.286 \\ + 4.972 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 8.937 \\ + 9.486 \\ \hline \end{array}$$

2. Subtract

a)
$$\begin{array}{r} 5.62 \\ - 1.95 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 3.007 \\ - 2.458 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 6.857 \\ - 3.927 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 25.305 \\ - 14.487 \\ \hline \end{array}$$

3. Add or subtract.

a) $9.7 + 8.48$

b) $0.934 - 0.48$

c) $7 + 3.485$

d) $58.246 + 31.8$

e) $97.04 - 53.256$

f) $0.53 - 0.145$

Lesson 8: Dividing Decimals by 10, 100 and 1000

Use mental math to find each quotient.

1. a) $4.5 \div 10$
 $4.5 \div 100$
 $4.5 \div 1000$

b) $7.62 \div 10$
 $7.62 \div 100$
 $7.62 \div 1000$

c) $0.974 \div 10$
 $0.974 \div 100$
 $0.974 \div 1000$

2. a) $6 \div 10$
d) $5.8 \div 100$

b) $7.4 \div 1000$
e) $17 \div 1000$

c) $3.497 \div 100$
f) $143.946 \div 1000$

3. One thousand new pennies have a mass of 2350 g.
What is the mass of one penny?4. One hundred new 50-cent coins have a mass of 690 g.
What is the mass of one 50-cent coin?

Lesson 9: Multiplying Whole Numbers by 0.1, 0.01, and 0.001

Use mental math to find each product

1.

a) 25×0.1 25×0.01 25×0.001	b) 4×0.1 4×0.01 4×0.001	c) 145×0.1 145×0.01 145×0.001
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2.

a) 3×0.01	b) 7×0.1	c) 127×0.001
d) 58×0.1	e) 136×0.001	f) 1568×0.01

3. Use mental math.

a) 5×0.1 $5 \div 10$	b) 16×0.01 $16 \div 100$	c) 127×0.001 $127 \div 1000$
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Master 4.27

Extra Practice Answers

Extra Practice 1 – Master 4.22

Lesson 1

- a) 0.17 b) 4.3 c) 0.02
 d) 0.9 e) 0.99 f) 41.07
- a) $17\frac{2}{100}$ b) $8\frac{4}{10}$ c) $\frac{13}{100}$
 d) $1\frac{34}{100}$ e) $\frac{91}{100}$ f) $6\frac{7}{10}$
- 0.369, 0.396, 0.639, 0.693, 0.936, 0.963, 3.69, 3.96, 6.39, 6.93, 9.36, 9.63, 36.9, 39.6, 63.9, 69.3, 93.6, 96.3

Lesson 2

- a) 1.60 b) 0.4 c) 2.10
 d) 0.80 e) 0.1 f) 18.50
- a) 9.7 b) 4.30 c) 2.2
 d) 0.80 e) 0.1 f) 18.50
- a) 0.3 and 0.30 b) 2.1 and 2.10
 c) 9.7 and 9.70 d) 15.3 and 15.30

Extra Practice 2 – Master 4.23

Lesson 3

- a) 0.291 b) 4.173 c) 6.008
 d) 19.03 e) 0.017 f) 4.6
- a) $\frac{436}{1000}$ b) $5\frac{16}{1000}$ c) $13\frac{4}{1000}$
 d) $10\frac{102}{1000}$ e) $7\frac{19}{1000}$ f) $4\frac{3}{10}$

Lesson 4

- a) $2.537 < 2.58$ b) $0.607 > 0.601$
 c) $1.42 > 1.413$ d) $2.6 = 2.600$
- a) 1.004, 0.439, 0.37 b) 2.83, 1.9, 0.297
 c) 6.284, 6.237, 6.019 d) 5.12, 3.6, 3.105
- 2.359 or 2.360

Extra Practice 3 – Master 4.24

Lesson 5

- a) 4 b) 1 c) 7 d) 3
 e) 2 f) 17 g) 4 h) 6
- a) 8.6 b) 7.2 c) 0.1 d) 7.3
 e) 17.7 f) 145.3 g) 1.4 h) 8.0
- a) 3.46 b) 7.32 c) 6.99 d) 33.33
 e) 18.02 f) 2.59 g) 0.33 h) 1.45

Lesson 6

- a) about 15 b) about 10.5 c) about 10
 d) about 8 e) about 2 f) about 6
- a) about 5 b) about 3 c) about 6
 d) about 1 e) about 5 f) about 3

Extra Practice 4 – Master 4.25

Lesson 7

- a) 12.02 b) 114.343 c) 5.258 d) 18.423
- a) 3.67 b) 0.549 c) 2.93 d) 10.818
- a) 18.18 b) 0.454 c) 10.485
 d) 90.046 e) 43.784 f) 0.385

Lesson 8

- a) 0.45, 0.045, 0.0045
 b) 0.762, 0.0762, 0.00762
 c) 0.0974, 0.00974, 0.000974
- a) 0.6 b) 0.0074 c) 0.03497
 d) 0.058 e) 0.017 f) 0.143946
- 2.35 g
- 6.9 g

Extra Practice 5 – Master 4.26

Lesson 9

- a) 2.5, 0.25, 0.025
 b) 0.4, 0.04, 0.004
 c) 14.5, 1.45, 0.145
- a) 0.03 b) 0.7 c) 0.127
 d) 5.8 e) 0.136 f) 15.68
- a) 0.5, 0.5 b) 0.16, 0.16 c) 0.127, 0.127