

Master 4.27

Extra Practice 1

Lesson 1: Numbers in the Media

1. Rewrite each number in standard form.

a) 3.6 million

b) $6\frac{3}{4}$ billion

c) $\frac{1}{2}$ million

d) $2\frac{1}{10}$ billion

e) 4.25 million

f) 1.4 billion

2. Use decimals. Round each number to the nearest hundredth of a million.

a) 16 284 371

b) 1 906 242

c) 47 072 148

d) 4 575 234

e) 51 421 357

f) 5 393 175

Lesson 2: 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 a mixed number.

a) 0.436

b) 5.016

c) 13.004

d) 10.102

e) 7.019

f) 4.3

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Extra Practice 2

Lesson 3: 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 4: 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

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Extra Practice 3

Lesson 5: 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 6: Adding and Subtracting Decimals

1. Add.

a)
$$\begin{array}{r} 1.685 \\ + 4.937 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 5.148 \\ + 3.227 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 0.387 \\ + 4.996 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 51.239 \\ + 8.468 \\ \hline \end{array}$$

2. Subtract.

a)
$$\begin{array}{r} 13.352 \\ - 7.166 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 5.891 \\ - 1.309 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 11.026 \\ - 6.382 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 9.405 \\ - 3.881 \\ \hline \end{array}$$

3. Write vertically, then add or subtract.

a) $6.941 - 2.34$

b) $3.85 + 7.206$

c) $1.456 + 0.937$

d) $8.142 + 0.51$

e) $2.856 - 1.23$

f) $5.34 - 1.9$

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Extra Practice 4

Lesson 7: Multiplying Decimals by 10, 100, 1000, 10 000

Use mental math to find each product.

- | | | |
|---------------------------|------------------------------|-----------------------------|
| a) 4.9×10 | b) 27.631×10 | c) 0.937×10 |
| 4.9×100 | 27.631×100 | 0.937×100 |
| 4.9×1000 | 27.631×1000 | 0.937×1000 |
- | | | |
|-----------------------------------|----------------------------------|-------------------------------|
| a) 5.63×10 | b) $7.851 \times 10\ 000$ | c) 0.682×100 |
| d) 59.042×100 | e) 17.384×1000 | f) 20.89×1000 |
| g) $94.007 \times 10\ 000$ | h) 26.34×100 | i) 8.005×10 |
- A certain seed has a mass of 0.763 g.
What is the total mass of 10 of these seeds? 100 seeds?
1000 seeds? 10 000 seeds?

Lesson 8: Dividing Decimals by 10, 100, 1000, 10 000

Use mental math to find each quotient.

- | | | |
|-------------------------|--------------------------|---------------------------|
| a) $4.5 \div 10$ | b) $7.62 \div 10$ | c) $0.974 \div 10$ |
| $4.5 \div 100$ | $7.62 \div 100$ | $0.974 \div 100$ |
| $4.5 \div 1000$ | $7.62 \div 1000$ | $0.974 \div 1000$ |
- | | | |
|--------------------------|-----------------------------|-------------------------------|
| a) $6 \div 10$ | b) $7.4 \div 1000$ | c) $3.497 \div 100$ |
| d) $5.8 \div 100$ | e) $17 \div 10\ 000$ | f) $143.946 \div 1000$ |
- One thousand new pennies have a mass of 2350 g.
What is the mass of one penny?
- One hundred new 50-cent coins have a mass of 690 g.
What is the mass of one 50-cent coin?

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Extra Practice 5

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

Use mental math to find each product.

1. a) 25×0.1 b) 4×0.1 c) 145×0.1
 25×0.01 4×0.01 145×0.01
 25×0.001 4×0.001 145×0.001
2. a) 3×0.01 b) 7×0.1 c) 18×0.001
 d) 58×0.1 e) 136×0.001 f) 1568×0.01
3. Use mental math.
 a) 5×0.1 b) 16×0.01 c) 127×0.001
 $5 \div 10$ $16 \div 100$ $127 \div 1000$

Lesson 10: Multiplying Decimals by a 1-Digit Whole Number

1. Multiply.
- | | | |
|----------------------------------|--------------------------------|---------------------------------|
| a) 5.04
$\times \quad 7$ | b) 6.384
$\times \quad 2$ | c) 17.009
$\times \quad 6$ |
| d) $\$17.35$
$\times \quad 8$ | e) 1.257
$\times \quad 3$ | f) 0.738
$\times \quad 9$ |
2. Write vertically, then multiply.
- | | | |
|----------------------|---------------------|---------------------|
| a) 3.456×4 | b) 0.509×5 | c) 7.382×7 |
| d) $\$1.89 \times 8$ | e) 2.049×6 | f) 1.158×3 |

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Extra Practice 6

Lesson 11: Dividing Decimals by a 1-Digit Whole Number

1. Estimate. Then divide.

a) $3.472 \div 4$

b) $7.535 \div 5$

c) $9 \div 2$

d) $0.936 \div 3$

e) $0.006 \div 6$

f) $8.239 \div 7$

2. Divide. Multiply to check your answers.

a) $8 \overline{)0.848}$

b) $6 \overline{)2.466}$

c) $3 \overline{)7.41}$

d) $9 \overline{)1.836}$

e) $5 \overline{)46}$

f) $2 \overline{)9.434}$

3. Said paid \$1.71 for a package of 9 pencils.
How much did each pencil cost?

Lesson 12: Dividing Decimals

1. Estimate first. Then divide until the remainder is 0.

a) $3.589 \div 2$

b) $18 \div 4$

c) $2.768 \div 5$

d) $14.07 \div 5$

e) $49.77 \div 2$

f) $13 \div 5$

2. Divide. Round each quotient to the same number of decimal places as there are in the dividend.

a) $3.189 \div 2$

b) $5.1 \div 9$

c) $\$2.05 \div 2$

d) $27 \div 4$

e) $7.684 \div 3$

f) $13 \div 6$

3. Each mini van holds 9 people.

How many mini vans are needed for 76 people?