

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: Representing, Comparing, and Ordering Decimals

1. Write each number in standard form.

a) 2 and 534 thousandths b) 28 thousandths
c) 1 thousandth d) 5 and 6 hundredths

2. Write each number in words.

a) 2.036 b) 0.731 c) 1.004 d) 18.065

3. Copy and complete. Use $<$, $>$, or $=$.

a) $2.568 \square 2.537$ b) $8.97 \square 8.970$ c) $3.6 \square 3.253$

4. Order the numbers from least to greatest.

a) 8.721, 8.72, 8.7 b) 15.358, 17.267, 15.001
c) 2.9, 2.93, 2.736 d) 5.25, 5.257, 5.116

Master

Extra Practice 2

Lesson 3: 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) $5.34 - 1.9$

Lesson 4: Dividing Decimals by 0.1, 0.01, and 0.001

Use mental math to find each product or quotient.

1. a) $4.9 \div 0.1$
 $4.9 \div 0.01$
 $4.9 \div 0.001$

b) $27.631 \div 0.1$
 $27.631 \div 0.01$
 $27.631 \div 0.001$

c) $0.937 \div 0.1$
 $0.937 \div 0.01$
 $0.937 \div 0.001$

2. a) $5.63 \div 0.1$

b) $7.851 \div 0.001$

c) $0.682 \div 0.01$

d) $59.042 \div 0.01$

e) $17.384 \div 0.01$

f) $20.89 \div 0.001$

g) $94.007 \div 0.001$

h) $26.34 \div 0.01$

i) $8.005 \div 0.1$

3. A tree is 3.5 m tall. What is the height in decimetres?
In centimetres? In millimetres?

Extra Practice 3

Lesson 5: Multiplying Decimals by a 1-Digit Whole Number

1. Multiply.

a)
$$\begin{array}{r} 5.04 \\ \times 7 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 6.384 \\ \times 2 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 17.009 \\ \times 6 \\ \hline \end{array}$$

d)
$$\begin{array}{r} \$17.35 \\ \times 8 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 1.257 \\ \times 3 \\ \hline \end{array}$$

f)
$$\begin{array}{r} 0.738 \\ \times 9 \\ \hline \end{array}$$

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

Lesson 6: 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?

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Extra Practice 4**Lesson 7: Dividing Decimals**

- Estimate first. Then divide until the remainder is 0.
 - $3.589 \div 2$
 - $18 \div 4$
 - $2.768 \div 5$
 - $14.07 \div 5$
 - $49.77 \div 2$
 - $13 \div 5$
- Divide. Round each quotient to the same number of decimal places as there are in the dividend.
 - $3.189 \div 2$
 - $5.1 \div 9$
 - $\$2.05 \div 2$
 - $27 \div 4$
 - $7.684 \div 3$
 - $13 \div 6$
- Each mini van holds 9 people.
How many mini vans are needed for 76 people?

Master 4.25

Extra Practice Sample Answers

Extra Practice 1 – Master 4.21

Lesson 1

- | | |
|--------------|------------------|
| a) 3 600 000 | b) 6 750 000 000 |
| c) 500 000 | d) 2 100 000 000 |
| e) 4 250 000 | f) 1 400 000 000 |
- | | |
|------------------|-----------------|
| a) 16.28 million | b) 1.91 million |
| c) 47.07 million | d) 4.58 million |
| e) 51.42 million | f) 5.39 million |

Lesson 2

- | | |
|----------|----------|
| a) 2.534 | b) 0.028 |
| c) 0.001 | d) 5.06 |
- | |
|---|
| a) Two and thirty-six thousandths |
| b) Seven hundred thirty-one thousandths |
| c) One and four thousandths |
| d) Eighteen and sixty-five thousandths |
- | | | |
|------|------|------|
| a) > | b) = | c) > |
|------|------|------|
- | | |
|---------------------|---------------------------|
| a) 8.7, 8.72, 8.721 | b) 15.001, 15.538, 17.267 |
| c) 2.736, 2.9, 2.93 | d) 5.116, 5.25, 5.257 |

Extra Practice 2 – Master 4.22

Lesson 3

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|----------|-----------|
| a) 6.622 | b) 8.375 |
| c) 5.383 | d) 59.707 |
- | | |
|----------|----------|
| a) 6.186 | b) 4.582 |
| c) 4.644 | d) 5.524 |
- | | | |
|--|---|--|
| a) 6.941 | b) 3.850 | c) 1.456 |
| $\begin{array}{r} -2.340 \\ 4.601 \end{array}$ | $\begin{array}{r} +7.206 \\ 11.056 \end{array}$ | $\begin{array}{r} +0.937 \\ 2.393 \end{array}$ |
| d) 8.142 | e) 2.856 | f) 5.34 |
| $\begin{array}{r} +0.510 \\ 8.652 \end{array}$ | $\begin{array}{r} -1.230 \\ 1.626 \end{array}$ | $\begin{array}{r} -1.90 \\ 3.44 \end{array}$ |

Lesson 4

- | |
|---------------------------|
| a) 49, 490, 4900 |
| b) 276.31, 2763.1, 27 631 |
| c) 9.37, 93.7, 937 |

- | | | |
|-----------|-----------|-----------|
| a) 56.3 | b) 7851 | c) 68.2 |
| d) 5904.2 | e) 1738.4 | f) 20 890 |
| g) 94 007 | h) 2634 | i) 80.05 |
- 35 dm, 350 cm, 3500 mm

Extra Practice 3 – Master 4.23

Lesson 5

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|-------------|-----------|------------|
| a) 35.28 | b) 12.768 | c) 102.054 |
| d) \$138.80 | e) 3.771 | f) 6.642 |
- | | | |
|------------|-----------|-----------|
| a) 13.824 | b) 2.545 | c) 51.674 |
| d) \$15.12 | e) 12.294 | f) 3.474 |

Lesson 6

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|--------------------------------|
| a) A little less than 1; 0.868 |
| b) About 1.5; 1.507 |
| c) A little more than 4; 4.5 |
| d) About 0.3; 0.312 |
| e) About 0.001; 0.001 |
| f) A little more than 1; 1.177 |
- | |
|------------------------------------|
| a) 0.106; $0.106 \times 8 = 0.848$ |
| b) 0.411; $0.411 \times 6 = 2.466$ |
| c) 2.47; $2.47 \times 3 = 7.41$ |
| d) 0.204; $0.204 \times 9 = 1.836$ |
| e) 9.2; $9.2 \times 5 = 46$ |
| f) 4.717; $4.717 \times 2 = 9.434$ |
- $\$1.71 \div 9 = \0.19 ; each pencil cost 19 cents.

Extra Practice 4 – Master 4.24

Lesson 7

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|------------------------|
| a) Less than 2; 1.7945 |
| b) More than 4; 4.5 |
| c) About 0.5; 0.5536 |
| d) Almost 3; 2.814 |
| e) About 25; 24.885 |
| f) Less than 3; 2.6 |
- | | | |
|----------|----------|-----------|
| a) 1.595 | b) 0.6 | c) \$1.03 |
| d) 7 | e) 2.561 | f) 2 |
- $76 \div 9 = 8.4$; 9 vans are needed.