

Place Value and Decimals

Unit Test, Form A (page 1 of 2)

Score _____ / 12

1. Write the missing numbers.

$10 \times 0.083 = \underline{\hspace{2cm}}$

$\frac{1}{10} \text{ of } 5,600,000 = \underline{\hspace{2cm}}$

$4.9 \text{ is } 10 \text{ times } \underline{\hspace{2cm}}$

2. Write the missing numbers.

The 3 in 6.38 is worth

 $\underline{\hspace{2cm}}$ times the 3 in 2.035.

The 9 in 3,290,000 is worth

 $\underline{\hspace{2cm}}$ times the 9 in 1,900,000.

3. Write the missing numbers.

$10^6 = \underline{\hspace{2cm}}$

$7 \times 10^4 = \underline{\hspace{2cm}}$

$52,000 = 52 \times 10 \square$

4. Multiply or divide.

$0.46 \times 100 = \underline{\hspace{2cm}}$

$3.08 \times 1,000 = \underline{\hspace{2cm}}$

$71.5 \div 10 = \underline{\hspace{2cm}}$

$58 \div 1,000 = \underline{\hspace{2cm}}$

5. Write the missing numbers.

$6.7 \times 10^2 = \underline{\hspace{2cm}}$

$406 \div 10^3 = \underline{\hspace{2cm}}$

$0.08 \times 10 \square = 80$

$2.4 \div 10 \square = 0.024$

6. Write each number in the form named.

Standard form

nine and sixty-four thousandths

 $= \underline{\hspace{2cm}}$

Word form

 $0.508 =$

Place Value and Decimals

Unit Test, Form A (page 2 of 2)

7. Write each number in the form named.

Expanded form with fractions

$$6.047 = \underline{\hspace{2cm}}$$

Standard form

$$50 + 0.7 + 0.003 = \underline{\hspace{2cm}}$$

8. Write $>$, $<$ or $=$ in each circle.

$$3.07 \bigcirc 3.070$$

$$5.418 \bigcirc 5.42$$

$$0.62 \bigcirc 0.619$$

9. Write the decimals in order from least to greatest.

4.6

4.06

4.606

4.066

_____ $<$ _____ $<$ _____ $<$ _____
least greatest

10. Round the number to the nearest whole number, tenth and hundredth.

5.247

whole number

tenth

hundredth

11. Round each number to the nearest hundredth.

2.745

6.398

0.531

12. Write the missing numbers.

$$8.3 = \underline{\hspace{2cm}} \text{ hundredths}$$

$$0.12 = \underline{\hspace{2cm}} \text{ thousandths}$$

$$0.01 \text{ more than } 3.295 \text{ is } \underline{\hspace{2cm}}$$

$$0.1 \text{ less than } 6.042 \text{ is } \underline{\hspace{2cm}}$$

Place Value and Decimals

Unit Test, Form B (page 1 of 2)

Score _____ / 12

1. Write the missing numbers.

$10 \times 0.016 = \underline{\hspace{2cm}}$

$\frac{1}{10} \text{ of } 8,300,000 = \underline{\hspace{2cm}}$

$6.8 \text{ is } 10 \text{ times } \underline{\hspace{2cm}}$

2. Write the missing numbers.

The 7 in 5.74 is worth
_____ times the 7 in 0.172.

The 8 in 7,180,000 is worth
_____ times the 8 in 3,802,000.

3. Write the missing numbers.

$10^7 = \underline{\hspace{2cm}}$

$4 \times 10^5 = \underline{\hspace{2cm}}$

$610,000 = 61 \times 10 \square$

4. Multiply or divide.

$0.61 \times 100 = \underline{\hspace{2cm}}$

$4.05 \times 1,000 = \underline{\hspace{2cm}}$

$36.2 \div 10 = \underline{\hspace{2cm}}$

$73 \div 1,000 = \underline{\hspace{2cm}}$

5. Write the missing numbers.

$7.6 \times 10^2 = \underline{\hspace{2cm}}$

$512 \div 10^3 = \underline{\hspace{2cm}}$

$0.06 \times 10 \square = 60$

$3.9 \div 10 \square = 0.039$

6. Write each number in the form named.

Standard form

four and seventy-one thousandths

$= \underline{\hspace{2cm}}$

Word form

$0.906 =$

Place Value and Decimals

Unit Test, Form B (page 2 of 2)

7. Write each number in the form named.

Expanded form with fractions

8.035 = _____

Standard form

70 + 0.4 + 0.009 = _____

8. Write $>$, $<$ or $=$ in each circle.

2.90 ○ **2.9**

1.736 ○ **1.74**

0.71 ○ **0.709**

9. Write the decimals in order from least to greatest.

7.3

7.03

7.303

7.033

_____ $<$ _____ $<$ _____ $<$ _____
least greatest

10. Round the number to the nearest whole number, tenth and hundredth.

3.416

whole number

tenth

hundredth

11. Round each number to the nearest hundredth.

8.125

3.597

4.862

12. Write the missing numbers.

2.7 = _____ hundredths

0.15 = _____ thousandths

0.01 more than 4.196 is _____

0.1 less than 7.035 is _____

Place Value and Decimals

Unit Test, Form A (page 1 of 2)

Score _____ / 12

1. Write the missing numbers.

$$10 \times 0.083 = \underline{0.83}$$

$$\frac{1}{10} \text{ of } 5,600,000 = \underline{560,000}$$

$$4.9 \text{ is } 10 \text{ times } \underline{0.49}$$

Lesson 1.1 · Ten times as much, one tenth as much

2. Write the missing numbers.

The 3 in 6.38 is worth

10 times the 3 in 2.035.

The 9 in 3,290,000 is worth

$\frac{1}{10}$ times the 9 in 1,900,000.
or 0.1

Lesson 1.1 · Ten times as much, one tenth as much

3. Write the missing numbers.

$$10^6 = \underline{1,000,000}$$

$$7 \times 10^4 = \underline{70,000}$$

$$52,000 = 52 \times 10^{\boxed{3}}$$

Lesson 1.2 · Powers of ten with exponents

4. Multiply or divide.

$$0.46 \times 100 = \underline{46}$$

$$3.08 \times 1,000 = \underline{3,080}$$

$$71.5 \div 10 = \underline{7.15}$$

$$58 \div 1,000 = \underline{0.058}$$

Lesson 1.3 · Multiply and divide by 10, 100 and 1,000

5. Write the missing numbers.

$$6.7 \times 10^2 = \underline{670}$$

$$406 \div 10^3 = \underline{0.406}$$

$$0.08 \times 10^{\boxed{3}} = 80$$

$$2.4 \div 10^{\boxed{2}} = 0.024$$

Lesson 1.3 · Multiply and divide by 10, 100 and 1,000

6. Write each number in the form named.

Standard form

nine and sixty-four thousandths

$$= \underline{9.064}$$

Word form

$$0.508 =$$

five hundred eight thousandths

Lesson 1.4 · Thousandths in every form

Place Value and Decimals

Unit Test, Form A (page 2 of 2)

7. Write each number in the form named.

Expanded form with fractions

$$6.047 = 6 \times 1 + 4 \times \frac{1}{100} + 7 \times \frac{1}{1000}$$

or $6 + 4/100 + 7/1000$
or with $0 \times 1/10$ written in

Standard form

$$50 + 0.7 + 0.003 = 50.703$$

Lesson 1.4 · Thousandths in every form

8. Write $>$, $<$ or $=$ in each circle.

$$3.07 = 3.070$$

$$5.418 < 5.42$$

$$0.62 > 0.619$$

Lesson 1.6 · Compare and order decimals

9. Write the decimals in order from least to greatest.

4.6

4.06

4.606

4.066

$$4.06 < 4.066 < 4.6 < 4.606$$

least greatest

Lesson 1.6 · Compare and order decimals

10. Round the number to the nearest whole number, tenth and hundredth.

5.247

whole number

5

tenth

5.2

hundredth

5.25

Lesson 1.7 · Round decimals

11. Round each number to the nearest hundredth.

2.745

2.75

6.398

6.40

or 6.4

0.531

0.53

Lesson 1.7 · Round decimals

12. Write the missing numbers.

$$8.3 = 830 \text{ hundredths}$$

$$0.12 = 120 \text{ thousandths}$$

$$0.01 \text{ more than } 3.295 \text{ is } 3.305$$

$$0.1 \text{ less than } 6.042 \text{ is } 5.942$$

Lesson 1.5 · One number many ways

Place Value and Decimals

Unit Test, Form B (page 1 of 2)

Score _____ / 12

1. Write the missing numbers.

$$10 \times 0.016 = \underline{0.16}$$

$$\frac{1}{10} \text{ of } 8,300,000 = \underline{830,000}$$

$$6.8 \text{ is } 10 \text{ times } \underline{0.68}$$

Lesson 1.1 · Ten times as much, one tenth as much

2. Write the missing numbers.

The 7 in 5.74 is worth

10 times the 7 in 0.172.

The 8 in 7,180,000 is worth

$\frac{1}{10}$ times the 8 in 3,802,000.
or 0.1

Lesson 1.1 · Ten times as much, one tenth as much

3. Write the missing numbers.

$$10^7 = \underline{10,000,000}$$

$$4 \times 10^5 = \underline{400,000}$$

$$610,000 = 61 \times 10^{\boxed{4}}$$

Lesson 1.2 · Powers of ten with exponents

4. Multiply or divide.

$$0.61 \times 100 = \underline{61}$$

$$4.05 \times 1,000 = \underline{4,050}$$

$$36.2 \div 10 = \underline{3.62}$$

$$73 \div 1,000 = \underline{0.073}$$

Lesson 1.3 · Multiply and divide by 10, 100 and 1,000

5. Write the missing numbers.

$$7.6 \times 10^2 = \underline{760}$$

$$512 \div 10^3 = \underline{0.512}$$

$$0.06 \times 10^{\boxed{3}} = 60$$

$$3.9 \div 10^{\boxed{2}} = 0.039$$

Lesson 1.3 · Multiply and divide by 10, 100 and 1,000

6. Write each number in the form named.

Standard form

four and seventy-one thousandths

$$= \underline{4.071}$$

Word form

$$0.906 =$$

nine hundred six thousandths

Lesson 1.4 · Thousandths in every form

Place Value and Decimals

Unit Test, Form B (page 2 of 2)

7. Write each number in the form named.

Expanded form with fractions

$$8.035 = 8 \times 1 + 3 \times \frac{1}{100} + 5 \times \frac{1}{1000}$$

or $8 + \frac{3}{100} + \frac{5}{1000}$
or with $0 \times \frac{1}{10}$ written in

Standard form

$$70 + 0.4 + 0.009 = 70.409$$

Lesson 1.4 · Thousandths in every form

8. Write $>$, $<$ or $=$ in each circle.

$$2.90 \text{ } (=) \text{ } 2.9$$

$$1.736 \text{ } (<) \text{ } 1.74$$

$$0.71 \text{ } (>) \text{ } 0.709$$

Lesson 1.6 · Compare and order decimals

9. Write the decimals in order from least to greatest.

$$\boxed{7.3} \quad \boxed{7.03} \quad \boxed{7.303} \quad \boxed{7.033}$$

$$\underline{7.03} < \underline{7.033} < \underline{7.3} < \underline{7.303}$$

least greatest

Lesson 1.6 · Compare and order decimals

10. Round the number to the nearest whole number, tenth and hundredth.

3.416

whole number	tenth	hundredth
<u>3</u>	<u>3.4</u>	<u>3.42</u>

Lesson 1.7 · Round decimals

11. Round each number to the nearest hundredth.

8.125	3.597	4.862
<u>8.13</u>	<u>3.60</u> or 3.6	<u>4.86</u>

Lesson 1.7 · Round decimals

12. Write the missing numbers.

$$2.7 = \underline{270} \text{ hundredths}$$

$$0.15 = \underline{150} \text{ thousandths}$$

$$0.01 \text{ more than } 4.196 \text{ is } \underline{4.206}$$

$$0.1 \text{ less than } 7.035 \text{ is } \underline{6.935}$$

Lesson 1.5 · One number many ways