Level 1: Decimal Fractions Posttest Answer Key

Question 1:

Wontons Restaurant served 3,000 customers in September. This is one-tenth the number of customers served at the Lucky Garden Restaurant in September. How many customers did Lucky Garden serve in September?

 a. 30 customers

 b. 300 customers

 c. 30,000 customers

 d. 300,000 customers

Question 2:

The Hamburger Inn served 600 pounds of ground beef in one year. This is one-hundredth the amount of ground beef served by the fast food chain, Burger City. How much ground beef did Burger City serve?

 a. 60 pounds

 b. 600 pounds

 c. 60,000 pounds

 d. 600,000 pounds

Question 3:

When I multiply by a power of ten, the decimal point moves to the _____ because I am

a. left **b. right**

making the number ten times _____. When I divide by a power of ten, the decimal point

a. greater b. smaller

moves to the _____ because I am making the number ten times _____.

a. left b. right   a. greater **b. smaller**

Question 4:

The computer broke the code in four and three hundred twenty-six thousandths seconds.

Which expression shows this number in expanded form?

a. $4 + \left(300 \times \dfrac{1}{10}\right) + \left(26 \times \dfrac{1}{1000}\right)$

b. $4 + \left(3 \times \dfrac{1}{100}\right) = \left(26 \times \dfrac{1}{1000}\right)$

c. $4 + \left(300 \times \dfrac{1}{10}\right) + \left(20 \times \dfrac{1}{100}\right) + \left(6 \times \dfrac{1}{1000}\right)$

d. $4 + \left(3 \times \dfrac{1}{10}\right) + \left(2 \times \dfrac{1}{100}\right) + \left(6 \times \dfrac{1}{1000}\right)$

Question 5:

The table shows the amount of gas needed to fill the gas tanks of four cars.

Color of Car	Gallons of Gas
Blue	15.62
Silver	15.623
Black	15.632
White	15.63

Put the cars in order from the car that used the least gas to the car that used the most gas.

__1__ blue

__2__ silver

__4__ black

__3__ white

Continue ➡

Question 6:

A biologist measured a caterpillar as 4.448 centimeters long. What is the length of the caterpillar rounded to the nearest tenth of a centimeter?

a.   4.4

b.   4.44

c.   4.45

d.   4.5

Question 7:

The table shows the amount of diesel fuel needed to fill the gas tanks of four trucks.

a. Complete the table by rounding each amount to the nearest hundredth.

Truck	Amount of Fuel (gallons)	Rounded to the Nearest Hundredth
A	50.627	50.63
B	50.645	50.65
C	50.689	50.69
D	50.698	50.70

b. A tanker truck that delivers diesel fuel to the gas station holds 10^2 times the amount of fuel as

Truck A. How much fuel does the tanker truck hold? Round your answer to the nearest hundred.

5,100   gallons

Continue ➡

Question 8:

Which expression represents 1.52 in expanded form?

a. $1 \times 10 + 5 \times 1 + 2 \times \dfrac{1}{10}$

b. $1 \times 1 + 5 \times \dfrac{1}{10} + 2 \times \dfrac{1}{100}$

c. $1 \times 1 + 5 \times \dfrac{1}{100} + 2 \times \dfrac{1}{1000}$

d. $1 \times \dfrac{1}{10} + 5 \times \dfrac{1}{100} + 2 \times \dfrac{1}{1000}$

Question 9:

Which expression represents 6.43 in expanded form?

a. $6 \times 1 + 4 \times \dfrac{1}{10} + 3 \times \dfrac{1}{100}$

b. $6 \times 10 + 4 \times \dfrac{1}{10} + 3 \times \dfrac{1}{100}$

c. $6 \times 1 + 4 \times \dfrac{1}{100} + 3 \times \dfrac{1}{1000}$

d. $6 \times \dfrac{1}{10} + 4 \times \dfrac{1}{100} + 3 \times \dfrac{1}{1000}$

Question 10:

Look at this expression.

$$8 \times 1 + 9 \times \dfrac{1}{10} + 6 \times \dfrac{1}{100} + 2 \times \dfrac{1}{1000}$$

What number does the expression represent?

a. 8.0962

b. 8.962

c. 89.062

d. 89.62

Question 11:

Dante wrote this number in expanded form.

$$7 \times 1 + 1 \times \frac{1}{10} + 3 \times \frac{1}{100} + 4 \times \frac{1}{1000}$$

What is the number?

   a.   0.7134

   b.   7.134

   c.   71.034

   d.   71.34

Question 12:

Look at this expression.

$$9 \times 1 + 5 \times \frac{1}{10} + 2 \times \frac{1}{1000}$$

What number does the expression represent?

   a.   0.952

   b.   9.052

   c.   9.502

   d.   90.52

Question 13:

Put the numbers in order from least to greatest.

   _2_ 10.32

   _3_ 10.4

   _1_ 10.045

   _4_ 10.41

Question 14:

For a health project, Gabe compared the amount of salt per serving in four different foods.

Cheddar rice:	0.302 gram
Rice and beans:	0.32 gram
Spanish rice:	0.2 gram
Rice with chicken:	0.032 gram

Put the numbers in order from least to greatest.

__3__ 0.302

__4__ 0.32

__2__ 0.2

__1__ 0.032

Question 15:

Ashley's four favorite digital photos have different file sizes.

Dog photo:	2.61 megabytes
Park photo:	2.156 megabytes
Train photo:	2.16 megabytes
Beach photo:	2.5 megabytes

Which photo has the smallest file size?
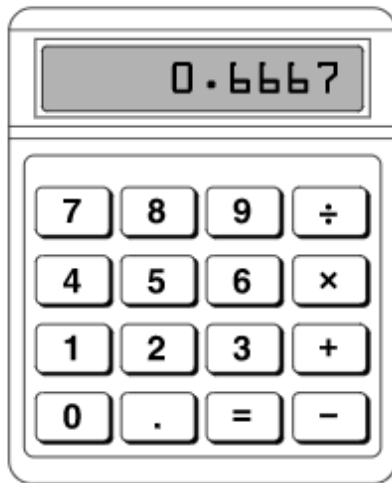
a. dog photo

b. park photo

c. train photo

d. beach photo

Continue ➡

Question 16:

Zach divided 2 by 3 on his calculator and got the answer shown.

```
 0.6667
  7  8  9  ÷
  4  5  6  ×
  1  2  3  +
  0  .  =  −
```

What is his answer rounded to the nearest tenth?

  a. 0.6

  b. 0.66

  c. 0.67

  d. 0.7

Question 17:

Mara weighs 84 pounds. She calculated that, on Jupiter, she would weigh 198.576 pounds. What would be Mara's weight on Jupiter, rounded to the nearest hundredth of a pound?

198.58	pounds

Question 18:

A fifth-grade student set the standing long jump record at her school's track meet by jumping 2.36 meters. What is this distance, rounded to the nearest tenth of a meter?

2.4	meters

Continue ➡

Question 19:

The length of a rectangle is 2.7 centimeters when rounded to the nearest tenth of a centimeter. Which could be the actual length of the rectangle?

a. 2.63 centimeters

b. 2.66 centimeters

c. 2.75 centimeters

d. 2.79 centimeters

Question 20:

This chart gives the batting averages of three famous baseball players.

Player	Batting Average
Babe Ruth	0.342
Lou Gehrig	0.34
Ted Williams	0.344

Arrange the players in order from the player with the smallest batting average to the player with the greatest batting average.

2	0.342

1	0.34

3	0.344

Stop