

Name: _____

PLACE VALUE CHALLENGE!!!!

Please circle the correct answer

1.

According to the World Bank, in 2008 the human population was: "Six billion six hundred ninety seven million two hundred fifty four thousand forty one."

Choose the place value chart that shows the human population in 2008.

A)

Billions			Millions			Thousands			Ones		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
0	0	6	6	9	7	2	5	4	4	1	0

B)

Billions			Millions			Thousands			Ones		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
0	0	6	6	9	7	2	5	4	0	4	1

C)

Billions			Millions			Thousands			Ones		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
6	0	0	6	9	7	2	5	4	0	4	1

D)

Billions			Millions			Thousands			Ones		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
0	0	0	6	6	9	7	2	5	4	4	1

2. In standard form the number **Three and forty two hundred thousandths** would be written as:

- A) 3.0420
- B) 3.00420
- C) 3.00042
- D) 3.000042

3.

As an inheritance, Vickie's father received a cheque for nineteen thousand eight hundred thirty-six dollars and forty five cents from her grandparents' estate.

What number would appear in the thousands position on the cheque?

- A) 8
- B) 5
- C) 1
- D) 9

4. Which place value chart shows:

Thirty seven million, three hundred seventy two thousand, eight hundred and three?

A)

Millions			Thousands			Ones		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
3	7	0	3	7	2	8	0	3

B)

Millions			Thousands			Ones		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
0	3	7	3	7	2	8	0	3

C)

Millions			Thousands			Ones		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
0	0	0	3	7	2	8	0	3

D)

Millions			Thousands			Ones		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
3	0	7	3	7	2	8	0	3

5. Which number is the smallest?

- A) 0.000473
- B) 62 ten thousandths
- C) One and one millionth
- D) 140 hundred thousandths

6.

Ones	.	Tenths	Hundredths	Thousandths	Ten Thousandths	Hundred Thousandths	Millionths
0	.	0	0	5	2	0	0

What number is represented in the chart?

- A) Fifty two thousandths
- B) Fifty two ten thousandths
- C) Fifty two hundred thousandths
- D) Five hundred and twenty millionths

7. What is:

Five billion eight hundred twenty two million sixty eight thousand one hundred forty nine
expressed in standard form?

- A) 582 268 149
- B) 5 822 068 149
- C) 5 822 680 140
- D) 5 800 226 800 149

8. Hayley sees a large container filled with eggs at the farmers' market. She guesses the container contains two thousand three hundred eighty-nine eggs. What digit is in the hundreds place in her guess?

- A) 2
- B) 3
- C) 8
- D) 9

9.

X-rays are a form of electromagnetic radiation which travels through the air in the form of waves. The x-ray machines used by hospitals, labs and dentist offices emit x-rays with a wavelength that is about 8 ten billionths of a meter long.



Written in standard form the wavelength of medical x-rays is:

- A) 0.0000000008 meters
- B) 0.00000008 meters
- C) 0.0000008 meters
- D) 0.000008 meters

10. What is the value of the underlined digit:

6 789 601.2478

- A) 7
- B) 0.7
- C) 0.070
- D) 0.007