Warm up Grade 6

Date: Nov. 19

1)Write 7.874 025 in

a)written expanded form using decimals

$7 + 0.8 + 0.07 + 0.004 + 0.000\,02 + 0.000\,005$

b) How would you read 7.874 025

seven and eight hundred seventy-four thousandths twenty-five millionths

Homework solutions

Practice

1. Use a place-value chart to show each number.
   a) 2.3425 b) 0.142 86 c) 0.0007 d) 0.000 298

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths	Ten Thousandths	Hundred Thousandths	Millionths
					a)	2	3	4	2	5		
					d)	0	0	0	0	2	9	8

ones
tenths
hundredths
thousandths
ten thousand

2. Use the numbers in the table.
   Write the number that has a 5 in:
   a) the ten-thousandths position
   b) the millionths position
   c) the thousandths position
   d) the hundred-thousandths position
   e) the tenths position

0.635 734
0.506 312
1.003 825
3.702 456
2.184 592

a) 2.184 592
b) 1. 003 825

3. Describe the meaning of each digit in 4.524 371.

The 4 to the left of the decimal point represents 4 ones, the 5 represents 5 tenths, the 2 represents 2 hundredths, the 4 to the right of the decimal point represents 4 thousandths, the 3 represents 3 ten-thousandths, the 7 represents 7 hundred-thousandths, and the 1 represents 1 millionth.

4. Write each number in standard form.
   a) 8 and 26 ten-thousandths
   b) 24 millionths
   c) 3 hundred-thousandths
   d) 4 and 374 millionths

8.0026

Stop at ten-thousandths

a) 8. 0 0 2 6

d) 4. 0 0 0 3 7 4

4.000374

Stop

Homework solutions

5. Write each number in expanded form.

a) 0.0056 b) 0.000 49 c) 3.000 023 d) 0.348 619

a) 0.0056 = 0.005 + 0.0006

c) 3. 000 023 = 3 + 0.000 02 + 0. 000 003

6. Write a decimal that is between:

a) 2.153 and 2.154

2.1530 2.1540

2.1537,

b) 0.6534 and 0.6535

0.65340 0.65350

0.65347,

7. Find two examples of very small numbers in the media. Write each number in a place-value chart. Explain how you use the patterns in the chart to read these numbers.

8. How are the values of the red digits in each number related?

a) 5.000 05 b) 2.1433 c) 0.677 56 d) 4.234 654

c) 6 tenths are 10 000 times as great as 6 hundred-thousandths

9. Write the number in each fact in as many different forms as you can.

a) A strand of silk in the web of a garden spider has a diameter of about 0.000 003 m.

b) The diameter of one red blood cell is about 0.000 762 cm.

c) The mass of a grain of rice is about 0.000 02 kg.

b) 7 ten-thousandths + 6 hundred-thousandths + 2 millionths

or

0.0007 + 0.000 06 + 0.000 002

10. Use any or all of these digits: 1, 0, 2, 0, 4, 0, 5, 0

a) Write 5 numbers less than one thousandth.

b) Which of your numbers is the least? How do you know?

c) Which of your numbers is the greatest? How do you know?

Write each number in standard form

a) 5 and 43 ten-thousandths

5.0043

tells us where your last digit stops

b) seventy-four millionths

0.000074

stop in millionths

2) Put the decimals in order from largest to smallest

~~0.047~~ , 0.0038, ~~0.1025~~, 0.006 899

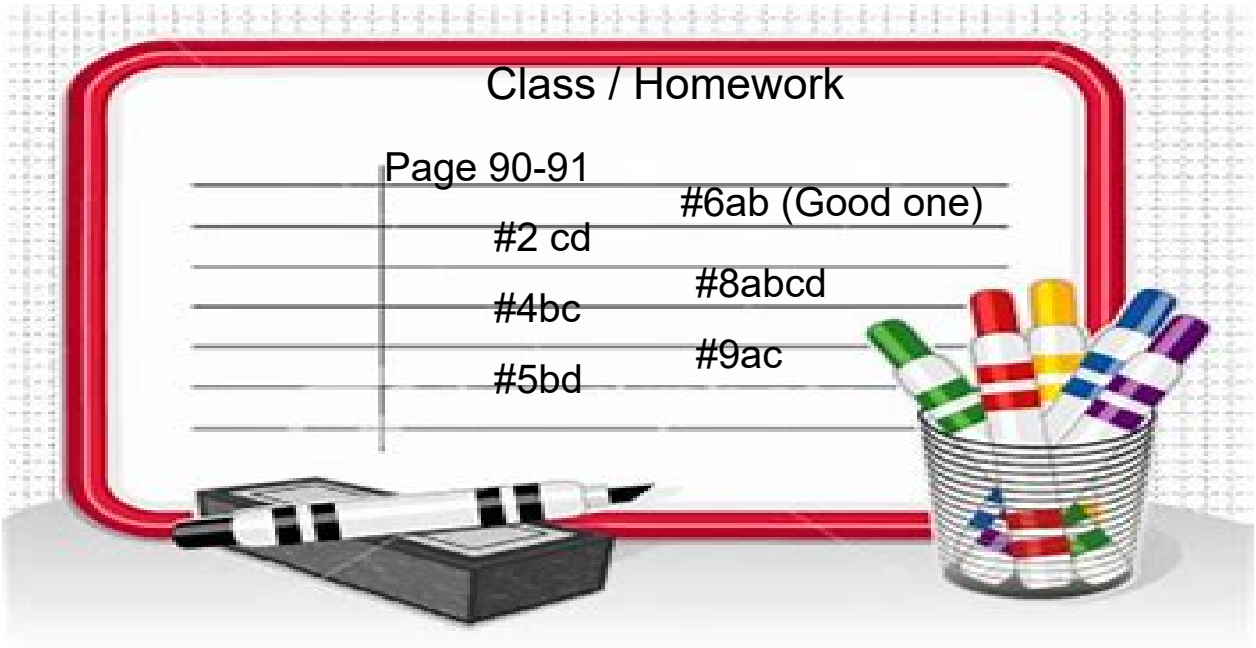
2nd 1st 3rd

Biggest

0.1025, 0.047, 0.006899, 0.0038

→ compare place values

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	Ten**ths**	Hundred**ths**	Thousand**ths**	Ten Thousandths	Hundred Thousandths	Millionths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Page 90-91
#2 cd
#4bc
#5bd
#6ab (Good one)
#8abcd
#9ac

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TIP

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