

# TEK: 5.2A

decimal place value

hundreds	tens	ones	and	tenths	hundredths	thousandths
4	5	6	.	9	8	1

ways to write a decimal

Standard form 32.381

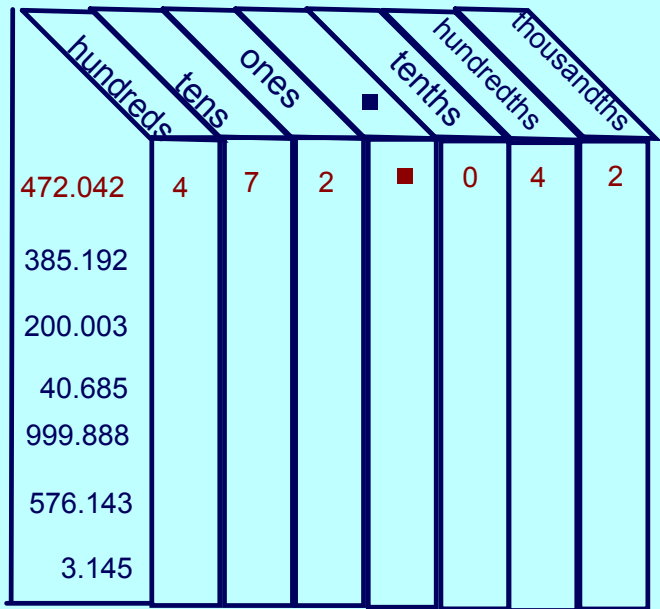
Word form thirty two and three hundred eighty one thousandths

Expanded form  
 $30 + 2 + 0.3 + 0.08 + 0.001$

# Review of place value to thousandths

Remember that the third digit after the decimal point is the thousandths place.

Put the following numbers into the place value chart.



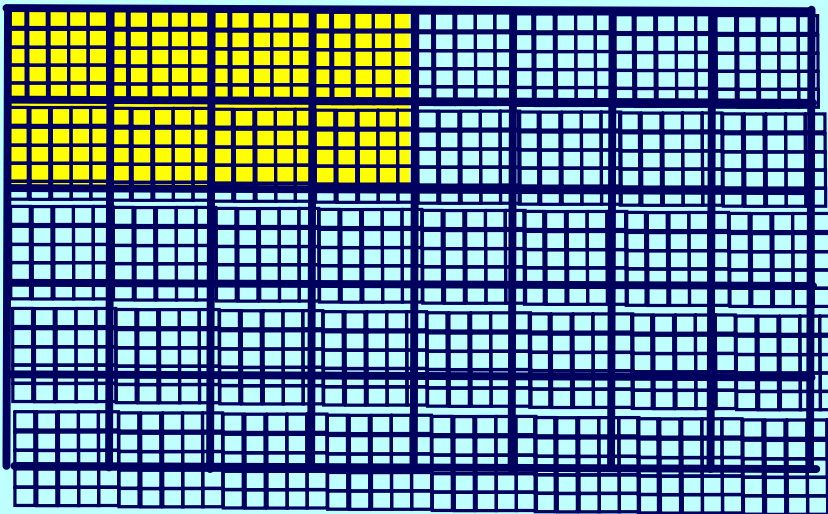
# Place value to thousandths

This chart shows 1,000 boxes. How many of the boxes are shaded yellow?

We see: 200 of the 1000 boxes are shaded.

We say: 200 thousandths of the boxes are shaded.

We write: 0.200

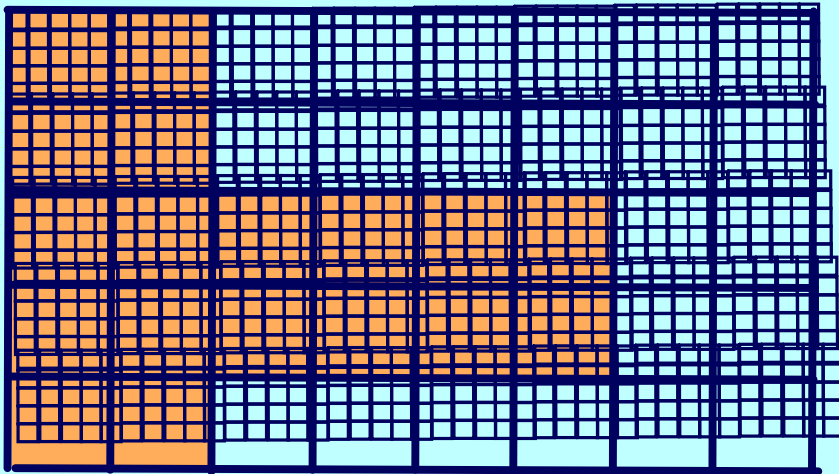


How many of the boxes are shaded orange?

We see:

We say:

We write:

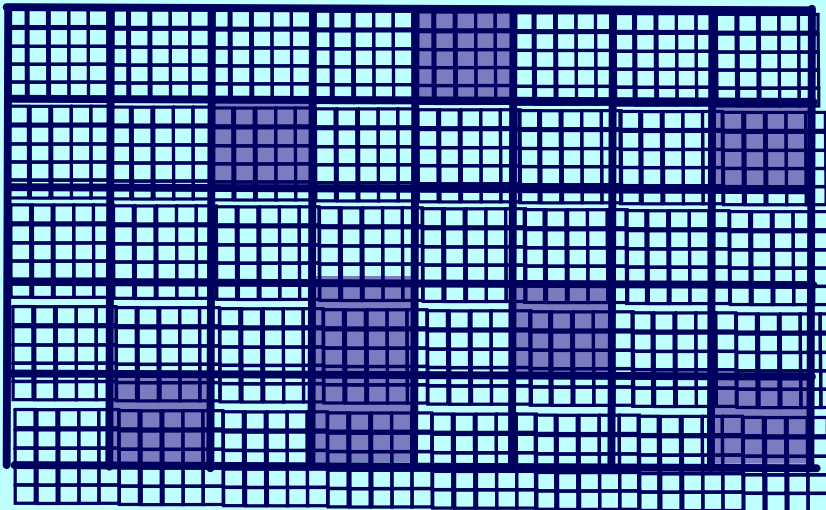


How many of the boxes are shaded purple?

We see:

We say:

We write:

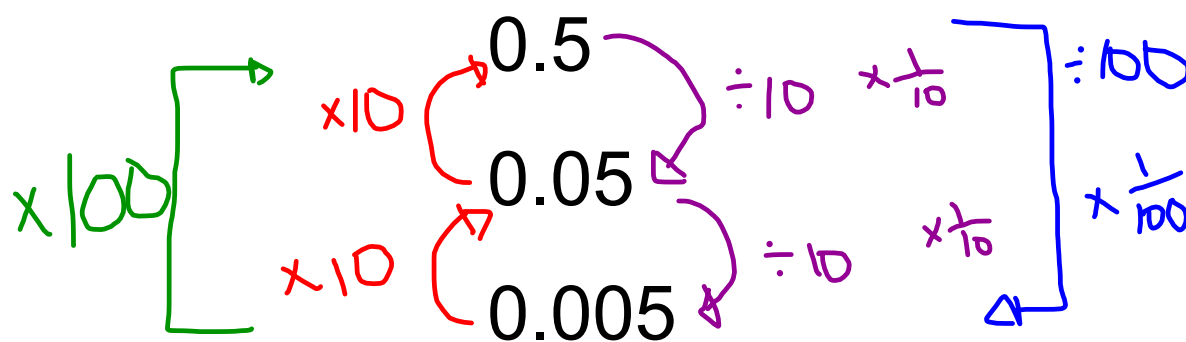
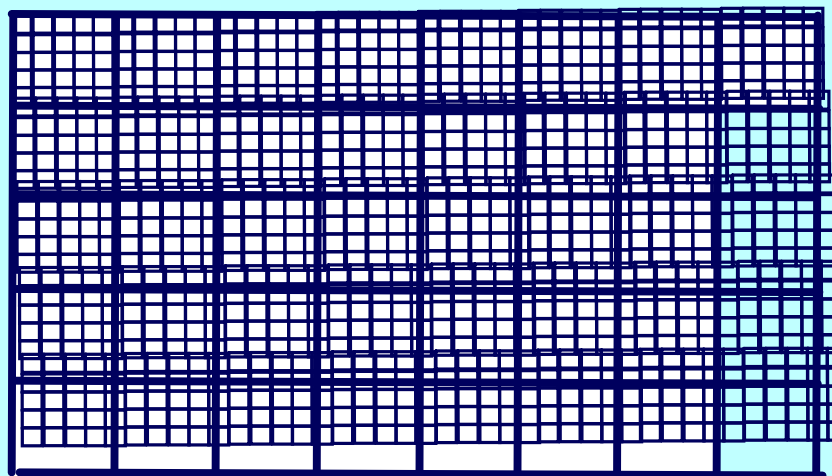


How many of the boxes are shaded white?

We see:

We say:

We write:



Write each decimal using words.

5.714 = Five and seven hundred and fourteen thousandths

2.876 = two and eight hundred seventy six thousandths

15.604 = fifteen and six hundred four thousandths

0.423 = four hundred twenty three thousandths

9.007 = nine and seven thousandths

0.073 = seventy three thousandths

Write each of the following as a decimal number.

7 thousandths = 0.007

47 and 326 thousandths = 47.326

653 and 23 thousandths = ~~653.23~~ 653.023

19 and 2 thousandths = ~~19.2~~ 19.002

732 and 190 thousandths = 732.190

482 and 0 thousandths = 482.000

Write the decimal that is 0.001 greater than:

$$1.266 = 1.267$$

$$0.093 =$$

$$28.005 =$$

$$9.889 =$$

$$83.453 =$$

$$345.954$$

Complete the following number sentences:

$$1.385 = 1 + 0.3 + 0.08 + \underline{0.005}$$

$$0.531 = 0 + \underline{0.5} + \underline{0.03} + 0.001$$

$$12.896 = \underline{10} + 2 + 0.8 + \underline{0.09} + \underline{0.006}$$

$$\overset{12.345}{\underline{\quad}} = 10 + 2 + 0.3 + 0.04 + 0.005$$

$$3.107 = 3 + \underline{\quad} + \underline{\quad} + \underline{\quad}$$

$$264.111 = 200 + 60 + \underline{\quad} + \underline{\quad} + 0.01 + \underline{\quad}$$

Numbers

Place Value

Print

Each digit in a number has a place value. That means that a digit's place, or where it sits, determines its value. Once you know the place values of numbers, reading any number will be a breeze.

PLAY VIDEO

Test Yourself

Key Vocabulary

- place value
- expanded form
- period

- digit
- standard form

Place Values

8	2	4	

Decimal Point

+

÷

−

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