

DIFFERENTIATION

Place Value - Numbers to Any Size

Fractions and Decimals 25 Place Value 28

Based on your Professional Teacher Judgment and Pre-assessment data, Levels with **1** may be included in the first lesson; Based on embedded assessment data, Levels with **2** **3** may be included in these lessons. The anchor charts for this concept may look like these on a 'Wall that Teaches' over a few lessons.

PV 7 Standard Place Value of teen numbers

ten | ones
1 | 4
14 is 1 ten and 4 ones

PV 11 Standard and non-standard Place Value of teen numbers

tens | ones
1 | 4
14 is 1 ten and 4 ones
14 is 14 ones

PV 11 Standard and non-standard Place Value of two-digit numbers

tens | ones
2 | 4
24 is 2 tens and 4 ones
24 is 1 ten and 14 ones
24 is 24 ones

PV 11 Standard and non-standard Place Value of 20s numbers

tens | ones
6 | 3
63 is 3 tens and 3 ones
63 is 4 tens and 23 ones
63 is 2 tens and 43 ones
63 is 63 ones

PV 15 Standard and non-standard Place Value of three-digit numbers

hundreds	tens	ones
1	2	4

124 = 1 hundred + 2 tens + 4 ones
124 = 12 tens + 4 ones
124 = 11 tens + 14 ones
124 = 10 tens + 24 ones
124 = 9 tens + 34 ones
124 = 4 tens + 84 ones

PV 17 Standard and non-standard Place Value of four-digit numbers

thousands | hundreds | tens | ones
5 | 8 | 9 | 7
5897 = 5 thousands + 8 hundreds + 9 tens + 7 ones
5897 = 58 hundreds + 97 ones
5897 = 4 thousands + 18 hundreds + 6 tens + 37 ones
5897 = 36 hundreds + 229 tens + 7 ones

PV 18 Multiplicative Place Value of whole numbers

hundreds | tens | ones
5 | 10 | 50
5 x 10 = 50
50 ÷ 10 = 5

PV 19 PA 20 Standard and non-standard Place Value of five-digit numbers

10 thousands | thousands | hundreds | tens | ones
5 | 1 | 2 | 4 | 8
51248 = 5 ten-thousands + 1 thousand + 2 hundreds + 4 tens + 8 ones
51248 = 51 thousands + 2 hundreds + 4 tens + 8 ones
51248 = 512 hundreds + 4 tens + 8 ones
51248 = 5124 tens + 8 ones
51248 = 51248 ones
51248 = 50 thousands and 124 tens and 8 ones
51248 = 50 thousands and 12 hundreds and 4 tens and 8 ones
51248 = 40 thousands and 22 hundreds and 48 ones

PV 20 FD 11 Multiplicative, standard and non-standard Place Value of numbers to tenths

eds | tens | ones | tenths
8 | 5 | 10 | 85
8.5 x 10 = 85
85 ÷ 10 = 8.5

thousands | hundreds | tens | ones | tenths
1 | 2 | 4 | 10 | 4
12.4 = 1 ten + 2 ones + 4 tenths
12.4 = 1 ten + 2 ones + $\frac{4}{10}$
12.4 = 12 ones + 4 tenths
12.4 = 12 $\frac{4}{10}$
12.4 = 5 ones + 77 tenths
12.4 = 5 ones + $\frac{77}{10}$
12.4 = $\frac{124}{10}$

Embedded assessment data may tell us we need to re-explicitly teach these Levels.

PV 21 FD 12 Multiplicative, standard and non-standard Place Value of numbers to hundredths

hundreds | tens | ones | tenths | hundredths
1 | 2 | 4 | 10 | 4
1.24 = 1 one + 2 tenths + 4 hundredths
1.24 = 1 one + $\frac{2}{10}$ + $\frac{4}{100}$
1.24 = 12 tenths + 4 hundredths
1.24 = 12 $\frac{4}{100}$
1.24 = 5 tenths + 74 hundredths
1.24 = 5 tenths + $\frac{74}{100}$
1.24 = $\frac{124}{100}$

PV 24 FD 18 and PV 25 FD 19 and PV 28 FD 25 Multiplicative, standard and non-standard Place Value of numbers to thousandths and numbers of any size

ten-thousands | thousands | hundreds | tens | ones | tenths | hundredths | thousandths
0.5 x 100 = 50
50 ÷ 100 = 0.5

400 ÷ 1000 = 0.4
0.4 x 1000 = 400

thousands | hundreds | tens | ones | tenths | hundredths | thousandths
1 | 1 | 1 | 1 | 1 | 1 | 1
1.111 = 1 $\frac{111}{1000}$

hundreds | tens | ones | tenths | hundredths | thousandths
1 | 2 | 4 | 10 | 4 | 7
1.247 = 1 one + 2 tenths + 4 hundredths + 7 thousandths
1.247 = 1 one + $\frac{2}{10}$ + $\frac{4}{100}$ + $\frac{7}{1000}$
1.247 = 12 tenths + 47 thousandths
1.247 = $\frac{12}{10}$ + $\frac{47}{1000}$
1.247 = 5 tenths + 73 hundredths + 17 thousandths
1.247 = 5 tenths + $\frac{73}{100}$ + $\frac{17}{1000}$
1.247 = $\frac{1247}{1000}$