Varied Fluency
Step 4: Understand Thousandths

National Curriculum Objectives:

Mathematics Year 5: (5F6b) Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

Differentiation:

Developing Questions to support the understanding of thousandths. Includes numbers smaller than 1 and place value grids to support.

Expected Questions to support the understanding of thousandths. Includes numbers smaller than 1 and the use of zero as a place holder.

Greater Depth Questions to support the understanding of thousandths. Includes numbers greater than 1, improper fractions and mixed numbers.
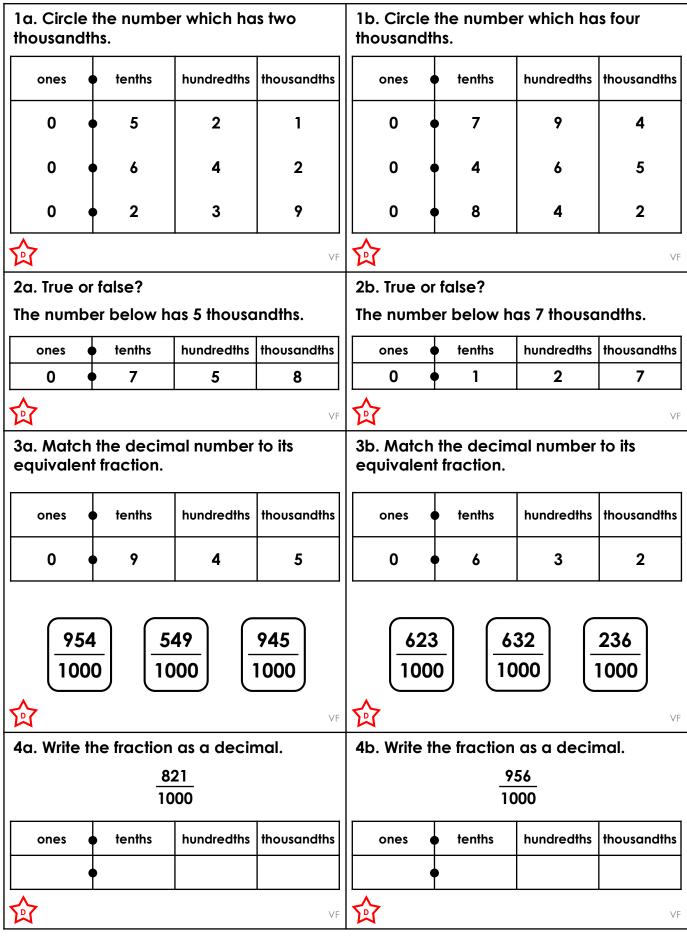
More Year 5 Decimals and Percentages resources.

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Understand Thousandths

Understand Thousandths

1a. Circle the number which has two thousandths.

ones		tenths	hundredths	thousandths
0	•	5	2	1
0	•	6	4	2
0	•	2	3	9

VF

1b. Circle the number which has four thousandths.

ones		tenths	hundredths	thousandths
0	•	7	9	4
0	•	4	6	5
0	•	8	4	2

VF

2a. True or false?

The number below has 5 thousandths.

ones		tenths	hundredths	thousandths
0	•	7	5	8

VF

2b. True or false?

The number below has 7 thousandths.

ones		tenths	hundredths	thousandths
0	•	1	2	7

VF

3a. Match the decimal number to its equivalent fraction.

ones		tenths	hundredths	thousandths
0	•	9	4	5

$\frac{954}{1000}$ $\frac{549}{1000}$ $\frac{945}{1000}$

VF

3b. Match the decimal number to its equivalent fraction.

ones		tenths	hundredths	thousandths
0	•	6	3	2

$\frac{623}{1000}$ $\frac{632}{1000}$ $\frac{236}{1000}$

VF

4a. Write the fraction as a decimal.

$$\frac{821}{1000}$$

ones		tenths	hundredths	thousandths
	•			

VF

4b. Write the fraction as a decimal.

$$\frac{956}{1000}$$

ones		tenths	hundredths	thousandths
	•			

VF

Understand Thousandths

Understand Thousandths

5a. Circle the numbers which have five thousandths.

0.154   0.635   0.505

0.827   0.516   0.245

5b. Circle the numbers which have seven thousandths.

0.927   0.742   0.717

0.683   0.775   0.027

6a. True or false?

4 tenths = 40 thousandths

6b. True or false?

6 tenths = 6,000 thousandths

7a. Match the decimal numbers to their equivalent fractions.

A.   0.309 $\frac{39}{1000}$

B.   0.039 $\frac{390}{1000}$

C.   0.39 $\frac{309}{1000}$

7b. Match the decimal numbers to their equivalent fractions.

A.   0.21 $\frac{201}{1000}$

B.   0.201 $\frac{210}{1000}$

C.   0.021 $\frac{21}{1000}$

8a. Write the fractions as decimals.

$\frac{72}{1000}$ = [ ]

$\frac{720}{1000}$ = [ ]

8b. Write the fractions as decimals.

$\frac{504}{1000}$ = [ ]

$\frac{54}{1000}$ = [ ]

9a. Circle the numbers which have the same number of ones and thousandths.

1.071   4.06   9.203

0.818   0.78   5.425

VF

9b. Circle the numbers which have the same number of ones and thousandths.

9.104   0.56   2.382

3.063   7.03   6.604

VF

10a. True or false?

7 tenths and 3 hundredths is

equivalent to 73 thousandths

VF

10b. True or false?

0 tenths and 6 hundredths is

equivalent to 600 thousandths

VF

11a. Match the decimal numbers to their equivalent fractions.

A.   4.56 $5\frac{406}{1000}$

B.   5.406 $4\frac{56}{1000}$

C.   4.056 $4\frac{560}{1000}$

VF

11b. Match the decimal numbers to their equivalent fractions.

A.   3.089 $4\frac{809}{1000}$

B.   4.809 $3\frac{890}{1000}$

C.   3.89 $3\frac{89}{1000}$

VF

12a. Write the fractions as decimals.

$\frac{2148}{1000}$ = ☐

$\frac{6037}{1000}$ = ☐

VF

12b. Write the fractions as decimals.

$\frac{5302}{1000}$ = ☐

$\frac{7610}{1000}$ = ☐

VF

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Varied Fluency – Understand Thousandths – Year 5 Greater Depth

Developing

1a. 0.642

2a. False, 0.758 has 8 thousandths.

3a. $\dfrac{945}{1000}$

4a. 0.821

Expected

5a. 0.635, 0.505, 0.245

6a. False, 4 tenths = 400 thousandths

7a. A – $\dfrac{309}{1000}$, B – $\dfrac{39}{1000}$, C – $\dfrac{390}{1000}$

8a. 0.072, 0.72

Greater Depth

9a. 1.071, 0.78, 5.425

10a. False, 7 tenths and 3 hundredths is equivalent to 730 thousandths.

11a. A – $4\dfrac{560}{1000}$, B – $5\dfrac{406}{1000}$, C – $4\dfrac{56}{1000}$

12a. 2.148, 6.037

Developing

1b. 0.794

2b. True

3b. $\dfrac{632}{1000}$

4b. 0.956

Expected

5b. 0.927, 0.717, 0.027

6b. False, 6 tenths = 600 thousandths

7b. A – $\dfrac{210}{1000}$, B – $\dfrac{201}{1000}$, C – $\dfrac{21}{1000}$

8b. 0.504, 0.054

Greater Depth

9b. 0.56, 2.382, 3.063

10b. False, 0 tenths and 6 hundredths is equivalent to 60 thousandths.

11b. A – $3\dfrac{89}{1000}$, B – $4\dfrac{809}{1000}$, C – $3\dfrac{890}{1000}$

12b. 5.302, 7.610