Varied Fluency
Step 5: Thousandths as Decimals

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 using thousandths as decimals. Includes numbers smaller than 1 and some place value grids to support.

Expected Questions to support using thousandths as decimals. Includes some numbers greater than 1 and zero as a place holder.

Greater Depth Questions to support using thousandths as decimals. Includes numbers greater than 1 and improper fractions.

More **Year 5 Decimals and Percentages** resources.

Did you like this resource? Don't forget to **review** it on our website.

Varied Fluency – Thousandths as Decimals – Teaching Information

Thousandths as Decimals

1a. Convert the decimal to thousandths.

0.132 ⟶ ⬜/1000

O	t	h	th
	0.1	0.01	0.001
		0.01	0.001
		0.01	

VF

1b. Convert the decimals to thousandths.

0.233 ⟶ ⬜/1000

O	t	h	th
	0.1	0.01	0.001
	0.1	0.01	0.001
		0.01	0.001

VF

2a. True or false?

0.917 has nine tenths and seven hundredths.

VF

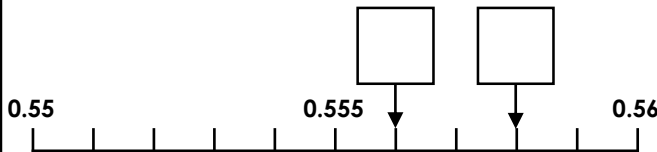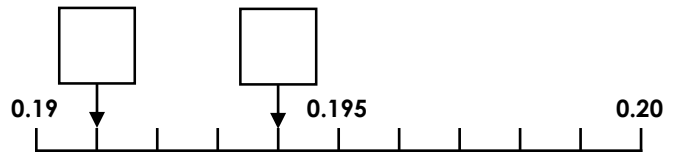**2b. True or false?**

0.825 has eight tenths and two thousandths.

VF

3a. Tick the box that shows the correct position of 0.556

0.55 — 0.555 — 0.56

VF

3b. Tick the box that shows the correct position of 0.194

0.19 — 0.195 — 0.20

VF

4a. Find the missing digits using the equivalent fractions.

142/1000

0. 1 4 ⬜

O	t	h	th
	0.1	0.01 0.01	0.001
		0.01 0.01	0.001

225/1000

0. 2 2 ⬜

O	t	h	th
	0.1	0.01	0.001 0.001
	0.1	0.01	0.001 0.001
			0.001

VF

4b. Find the missing digits using the equivalent fractions.

252/1000

0. 2 5 ⬜

O	t	h	th
	0.1	0.01 0.01	0.001
	0.1	0.01 0.01	0.001
		0.01	

613/1000

0. 6 1 ⬜

O	t	h	th
	0.1 0.1	0.01	0.001 0.001
	0.1 0.1		0.001
	0.1 0.1		

VF

Thousandths as Decimals

5a. Convert the decimals to thousandths. Give your answer as an improper fraction.

0.309 → $\dfrac{}{1000}$

0.028 → $\dfrac{}{1000}$

0.539 → $\dfrac{}{1000}$

VF

5b. Convert the decimals to thousandths. Give your answer as an improper fraction.

0.510 → $\dfrac{}{1000}$

0.906 → $\dfrac{}{1000}$

0.032 → $\dfrac{}{1000}$

VF

6a. True or false?

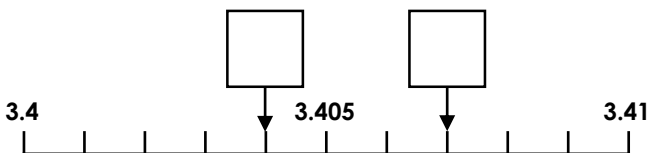**1.302 has one whole, three tenths and two hundredths.**

VF

6b. True or false?

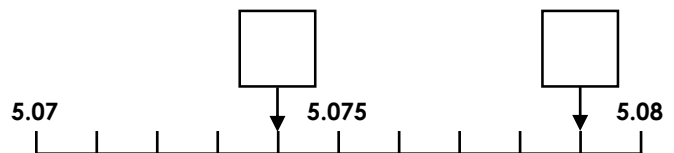**3.067 has three ones, six tenths and seven hundredths.**

VF

7a. Tick the box that shows the correct position of 3.407

3.4   3.405   3.41

VF

7b. Tick the box that shows the correct position of 5.074

5.07   5.075   5.08

VF

8a. Find the missing digits using the equivalent fractions.

0. 4 7 ☐ $\dfrac{470}{1000}$

0. 5 ☐ 8 $\dfrac{548}{1000}$

0. ☐ 0 2 $\dfrac{102}{1000}$

VF

8b. Find the missing digits using the equivalent fractions.

0. 0 5 ☐ $\dfrac{50}{1000}$

0. 1 ☐ 7 $\dfrac{127}{1000}$

0. ☐ 9 1 $\dfrac{91}{1000}$

VF

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Varied Fluency – Thousandths as Decimals – Year 5 Expected

Thousandths as Decimals

Thousandths as Decimals

9a. Convert the decimals to thousandths.

2.098 ⟶ ⬚/1000

1.409 ⟶ ⬚/1000

5.002 ⟶ ⬚/1000

VF

9b. Convert the decimals to thousandths.

9.402 ⟶ ⬚/1000

8.009 ⟶ ⬚/1000

2.105 ⟶ ⬚/1000

VF

10a. True or false?

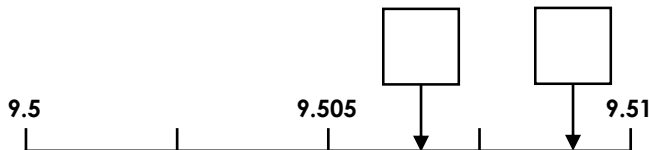**24.009 has two tens, four ones and nine hundredths.**

VF

10b. True or false?

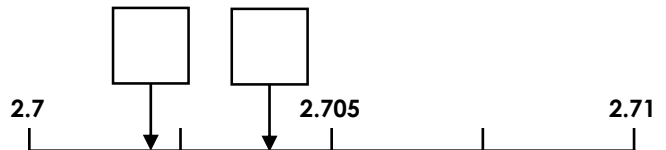**89.105 has eight tens, nine ones, ten tenths and five thousandths.**

VF

11a. Tick the box that shows the correct position of 9.509

9.5   9.505   9.51

VF

11b. Tick the box that shows the correct position of 2.704

2.7   2.705   2.71

VF

12a. Find the missing digits using the equivalent fractions.

7.   0   7   ⬚   7074/1000

⬚ . 9 ⬚ 7   5907/1000

3. ⬚ 9 ⬚   3492/1000

VF

12b. Find the missing digits using the equivalent fractions.

⬚ . 8   0   ⬚   1803/1000

⬚ . 0 ⬚ 6   8066/1000

2. ⬚ 6 2   2062/1000

VF

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Varied Fluency – Thousandths as Decimals – Year 5 Greater Depth

Varied Fluency
Thousandths as Decimals

Developing

1a. $\dfrac{132}{1000}$

2a. **False. 0.917 has nine tenths, one hundredth and seven thousandths.**

3a. **The first box should be ticked.**

4a. **0.14$\underline{2}$, 0.22$\underline{5}$**

Expected

5a. $\dfrac{309}{1000}$ $\dfrac{28}{1000}$ $\dfrac{539}{1000}$

6a. **False. 1.302 has one whole, three tenths and two thousandths.**

7a. **The second box should be ticked.**

8a. **0.47$\underline{0}$, 0.5$\underline{4}$8, 0.$\underline{1}$02**

Greater Depth

9a. $\dfrac{2098}{1000}$ $\dfrac{1409}{1000}$ $\dfrac{5002}{1000}$

10a. **False. 24.009 has 2 tens, 4 ones and nine thousandths.**

11a. **The second box should be ticked.**

12a. **7.07$\underline{4}$, 5.9$\underline{0}$7, 3.$\underline{4}$92**

Varied Fluency
Thousandths as Decimals

Developing

1b. $\dfrac{233}{1000}$

2b. **False. 0.825 has eight tenths, two hundredths and five thousandths.**

3b. **The second box should be ticked.**

4b. **0.25$\underline{2}$, 0.61$\underline{3}$**

Expected

5b. $\dfrac{510}{1000}$ $\dfrac{906}{1000}$ $\dfrac{32}{1000}$

6b. **False. 3.067 has three ones, six hundredths and seven thousandths.**

7b. **The first box should be ticked.**

8b. **0.05$\underline{0}$, 0.1$\underline{2}$7, 0.$\underline{0}$91**

Greater Depth

9b. $\dfrac{9402}{1000}$ $\dfrac{8009}{1000}$ $\dfrac{2105}{1000}$

10b. **False. 89.105 has 8 tens, nine ones, 1 tenth and 5 thousandths.**

11b. **The second box should be ticked.**

12b. **1.80$\underline{3}$, 8.0$\underline{6}$6, 2.$\underline{0}$62**