## Reasoning and Problem Solving 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:

Questions 1, 4 and 7 (Reasoning)
Developing Explain which fraction or decimal is the odd one out of 3 options. Includes numbers smaller than 1.
Expected Explain which fraction or decimal is the odd one out of 5 options. Includes numbers smaller than 1 and the use of zero as a place holder.
Greater Depth Explain which fraction or decimal is the odd one out of 5 options. Includes numbers greater than 1, improper fractions and mixed numbers.

Questions 2, 5 and 8 (Problem Solving)
Developing Use digit cards to complete a place value grid and write the equivalent fraction. Includes numbers smaller than 1.
Expected Use digit cards to complete a statement using understanding of thousandths. Includes numbers smaller than 1 and the use of zero as a place holder.
Greater Depth Use digit cards to complete a statement using understanding of thousandths. Includes numbers greater than 1 and improper fractions.

Questions 3, 6 and 9 (Problem Solving)
Developing Match 2 children to the number they are describing. Includes numbers smaller than 1.
Expected Match 3 children to the number they are describing. Includes numbers smaller than 1 and the use of zero as a place holder.
Greater Depth Match 3 children to the number they are describing. Includes numbers greater than 1 and mixed numbers.

More Year 5 Decimals and Percentages resources.

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

1a. Circle the odd one out.
$\frac{637}{1000} \quad 0.673 \quad \frac{673}{1000}$

| Explain your reasoning. |
| :--- |
| ones tenths hundredths thousandths <br> 2a. Use the digit cards to complete the    <br> place value grid in 3 different ways.    <br> 0    |

Write the matching fraction for each one.


$$
A=0.827 \quad B=0.782
$$

1b. Circle the odd one out.
$\frac{298}{1000} \quad 0.298 \quad \frac{289}{1000}$

Explain your reasoning.

2b. Use the digit cards to complete the place value grid in 3 different ways.


| ones | § tenths | hundredths | thousandths |
| :---: | :--- | :--- | :--- |
| $\mathbf{0}$ |  |  |  |

Write the matching fraction for each one.


3b. Match the children to their numbers.


My number has 5 tenths, 3 hundredths and 4 thousandths.
Freya

$$
A=0.534 \quad B=0.453
$$

## Understand Thousandths

4a. Circle the odd one out
0.045
0.45
0.405

Explain your reasoning.

5a. Use the digit cards to complete the statement below in 3 different ways.

Each card can be used more than once.


6a. Match the children to their numbers.


4b. Circle the odd one out.
$\frac{37}{1000} \quad \frac{370}{1000}$
0.307
0.37

Explain your reasoning.

5b. Use the digit cards to complete the statement below in 3 different ways.

Each card can be used more than once.


6b. Match the children to their numbers.



## Reasoning and Problem Solving Understand Thousandths

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## Developing

1a. $\frac{637}{1000}$ is the odd one out because its matching decimal 0.637 is not given.

2a. Various possible answers, for example:
$0.549=\frac{549}{1000}, 0.459=\frac{459}{1000}, 0.945=\frac{945}{1000}$
3a. A - Luke, B - Sasha

## Expected

$4 a .0 .45$ is the odd one out because its matching fraction $\frac{450}{1000}$ is not given.
5a. Various possible answers, for example:
$\frac{602}{1000}=0.602, \frac{247}{1000}=0.247, \frac{706}{1000}=0.706$
6a. A - Ali, B - Katy, C - Violet

## Greater Depth

7a. 7.32 is the odd one out because its matching fraction $\frac{7320}{1000}$ or $7 \frac{320}{1000}$ is not given.

8a. Various possible answers, for example: $\frac{3906}{1000}=3.906, \frac{4063}{1000}=4.063, \frac{6409}{1000}=6.409$ 9a. A - Ella, B - Alina, C - Josh

## Developing

1b. $\frac{289}{1000}$ is the odd one out because its matching decimal 0.289 is not given.

2b. Various possible answers, for example:
$0.361=\frac{361}{1000}, 0.631=\frac{631}{1000}, 0.136=\frac{136}{1000}$
3b. A - Freya, B - Jason

## Expected

4b. 0.307 is the odd one out because its matching fraction $\frac{307}{1000}$ is not given.
5b. Various possible answers, for example:
$\frac{801}{1000}=0.801, \frac{905}{1000}=0.905, \frac{189}{1000}=0.189$
6b. A - Seth, B - Marc, C - Jeni

## Greater Depth

7b. 5.906 is the odd one out because its matching fraction $\frac{5906}{1000}$ or $5 \frac{906}{1000}$ is not given.
8b. Various possible answers, for example: $\frac{2071}{1000}=2.071, \frac{8207}{1000}=8.207, \frac{7028}{1000}=7.028$
9b. A - Kelis, B - Dan, C - Liam

