Reasoning and Problem Solving Step 2: Tenths as Decimals

National Curriculum Objectives:

Mathematics Year 4: (4F6b) <u>Recognise and write decimal equivalents of any number of tenths or hundredths</u>

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Explain if an answer is correct where a decimal is represented on a hundred square. Includes numbers less than 1 and pictorial representations to support. Expected Explain if an answer is correct where a decimal is represented using different images. Includes numbers less than 1.

Greater Depth Explain if an answer is correct where a decimal is represented using different images. Includes numbers less than 1 with some use of equivalent fractions.

Questions 2, 5 and 8 (Reasoning)

Developing Explain which given statement is correct. Includes numbers less than 1 and pictorial representations to support.

Expected Explain which given statement is correct. Includes numbers less than 1. Greater Depth Explain which given statement is correct. Includes numbers less than 1 with some use of equivalent fractions.

Questions 3, 6 and 9 (Problem Solving)

Developing Provide possible answers which meet a given set of criteria. Includes numbers less than 1 and number lines to support.

Expected Provide possible answers which meet a given set of criteria. Includes numbers less than 1.

Greater Depth Provide possible answers which meet a given set of criteria. Includes numbers less than 1 with some use of equivalent fractions.

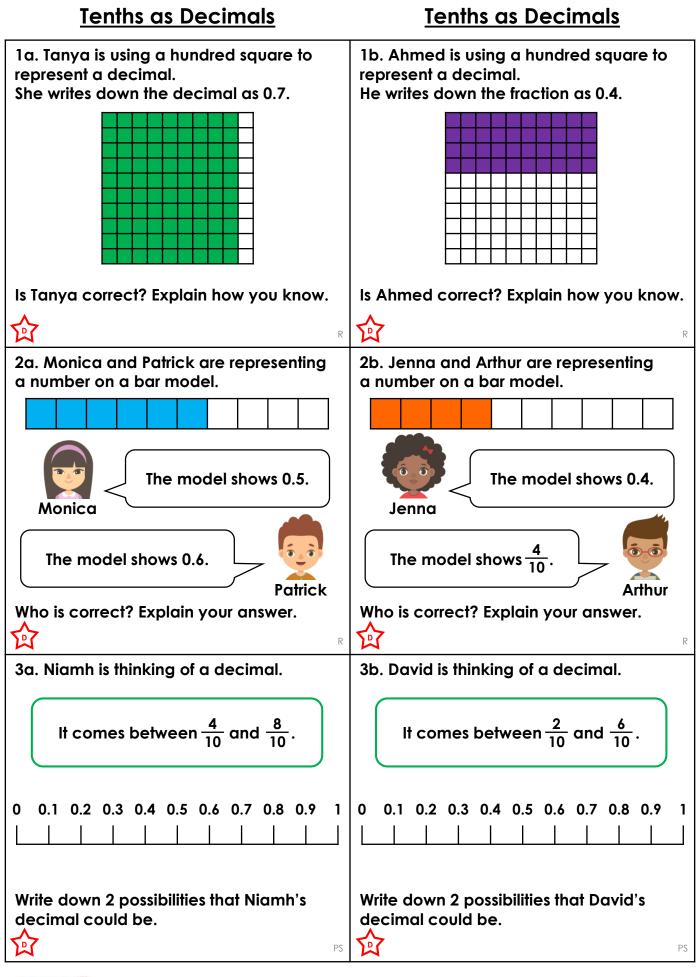
More <u>Year 4 Decimals</u> resources.

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Reasoning and Problem Solving – Tenths as Decimals – Teaching Information

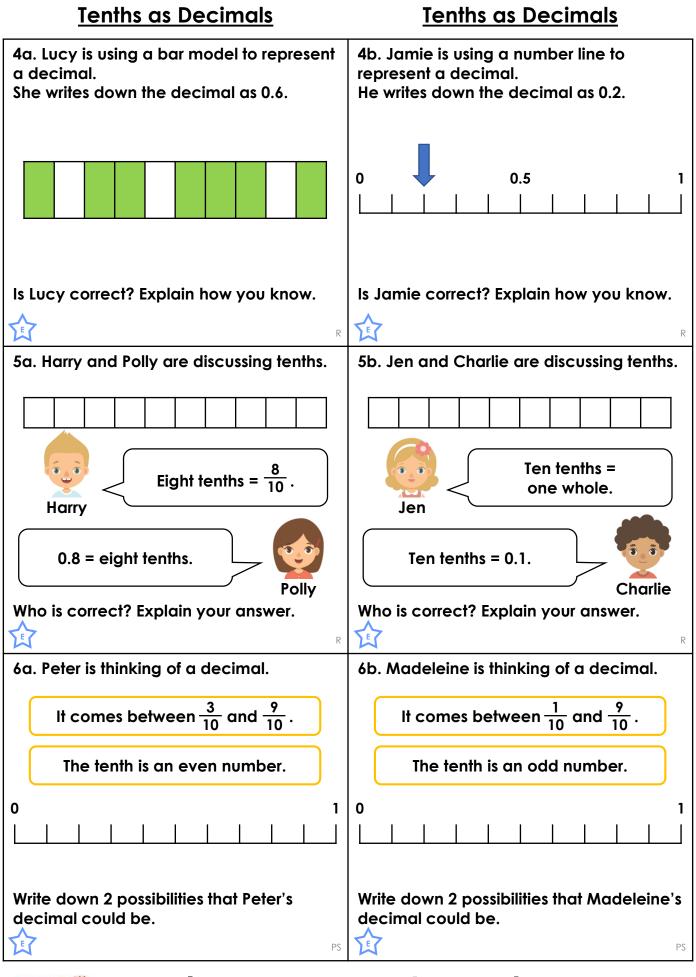


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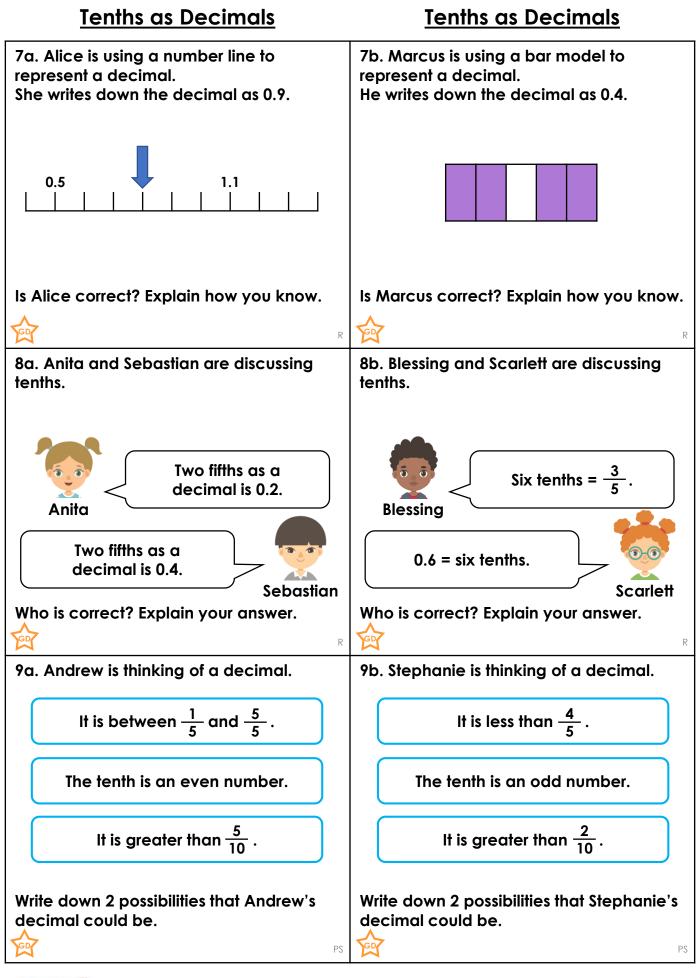
Reasoning and Problem Solving – Tenths as Decimals – Year 4 Developing



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Reasoning and Problem Solving – Tenths as Decimals – Year 4 Expected



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Reasoning and Problem Solving – Tenths as Decimals – Year 4 Greater Depth

<u>Reasoning and Problem Solving</u> <u>Tenths as Decimals</u>

Developing

1a. Tanya is incorrect because the hundred square shows nine tenths shaded or 0.9 but she has written 0.7.
2a. Patrick is correct because there are six tenths shaded so 0.6 is the correct decimal.

3a. Any two from the following: 0.5, 0.6, 0.7

Expected

4a. Lucy is incorrect because the bar model shows seven tenths shaded or 0.7 but she has written 0.9.

5a. Both children are correct because they have represented the tenths differently.

6a. Any two from the following: 0.4, 0.6, 0.8

Greater Depth

7a. Alice is incorrect because the arrow on the number line shows eight tenths or 0.8 but she has written 0.7.8a. Sebastian is correct because two fifths

is equivalent to four tenths.

9a. <mark>0.6</mark>, 0.8

<u>Reasoning and Problem Solving</u> <u>Tenths as Decimals</u>

Developing

1b. Ahmed is correct because the hundred square shows four tenths shaded.
2b. Both children are correct because there are four tenths shaded and they have represented the number in two ways.

3b. Any two from the following: 0.3, 0.4, 0.5

Expected

4b. Jamie is correct because the arrow on the number line shows two tenths.
5b. Jen is correct because one whole is equal to ten tenths.

6b. Any two from the following: 0.3, 0.5, 0.7

<u>Greater Depth</u>

7b. Marcus is incorrect because the bar model shows four fifths, which is equivalent to eight tenths or 0.8. 8b. Both children are correct because they have represented the tenths differently.

9b. Any two from the following: 0.3, 0.5, 0.7



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