

Varied Fluency

Step 5: Tenths as Decimals

National Curriculum Objectives:

Mathematics Year 3: (3F1a) [Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10](#)

Differentiation:

Developing Questions to support recognising and writing tenths as decimals using fractions only. Includes numbers smaller than 1 with pictorial support and scaffolding.

Expected Questions to support recognising and writing tenths as decimals using fractions and words. Includes numbers smaller than 1 with some pictorial support and scaffolding.

Greater Depth Questions to support recognising and writing tenths as decimals using fractions and words. Includes numbers smaller than 1 with minimal pictorial support and scaffolding.

More [Year 3 Fractions](#) resources.

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

Tenths as Decimals

1a. Match the fractions to the correct decimal.

$$\frac{2}{10}$$

$$0.6$$

$$\frac{6}{10}$$

$$0.8$$

$$\frac{8}{10}$$

$$0.2$$



VF

Tenths as Decimals

1b. Match the fractions to the correct decimal.

$$\frac{4}{10}$$

$$0.1$$

$$\frac{7}{10}$$

$$0.4$$

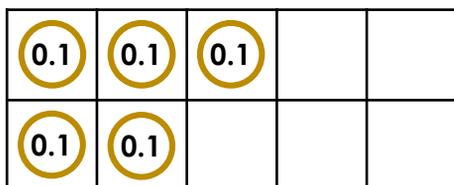
$$\frac{1}{10}$$

$$0.7$$



VF

2a. Use the image to complete the fraction and decimal.



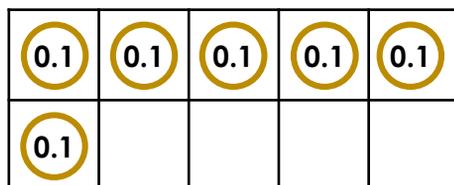
$$\frac{5}{10}$$

$$0.\underline{\quad}$$



VF

2b. Use the image to complete the fraction and decimal.



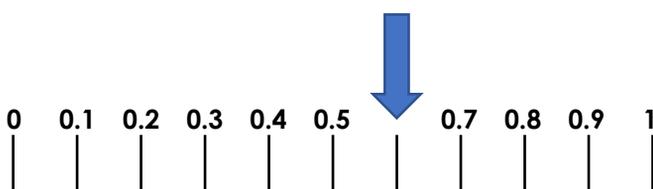
$$\frac{6}{10}$$

$$0.\underline{\quad}$$



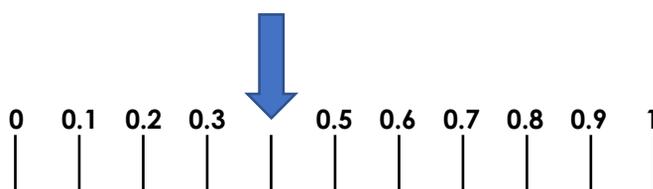
VF

3a. True or false? The arrow shows 0.6.



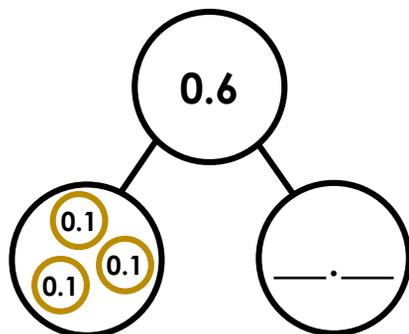
VF

3b. True or false? The arrow shows 0.3.



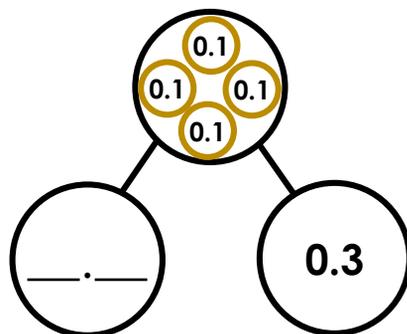
VF

4a. Complete the part whole model.



VF

4b. Complete the part whole model.



VF

Tenths as Decimals

5a. Match the fractions to the correct decimal.

two tenths

0.4

$\frac{4}{10}$

0.9

$\frac{9}{10}$

0.2



VF

Tenths as Decimals

5b. Match the fractions to the correct decimal.

six tenths

0.8

three tenths

0.6

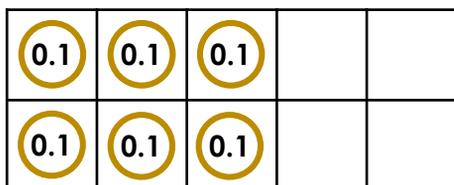
$\frac{8}{10}$

0.3



VF

6a. Use the image to complete the fraction and decimal.



$\frac{\square}{10}$

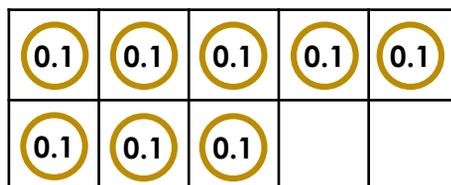
0.____

10



VF

6b. Use the image to complete the fraction and decimal.



$\frac{\square}{10}$

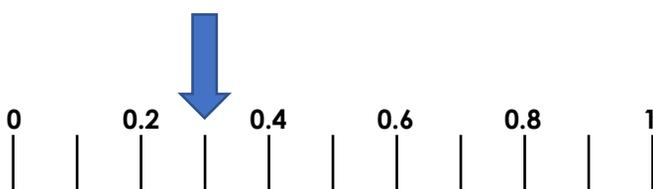
0.____

10



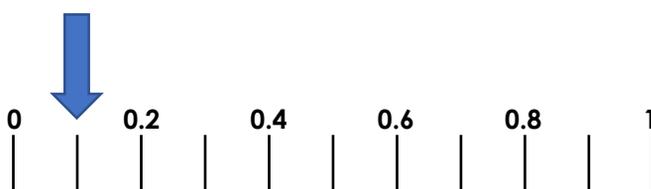
VF

7a. True or false? The arrow shows 0.3.



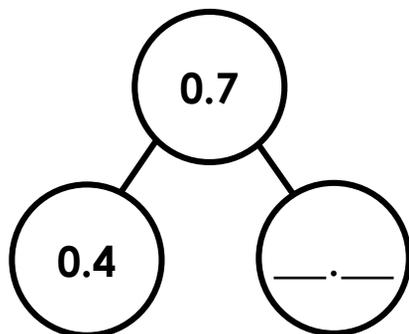
VF

7b. True or false? The arrow shows 0.9.



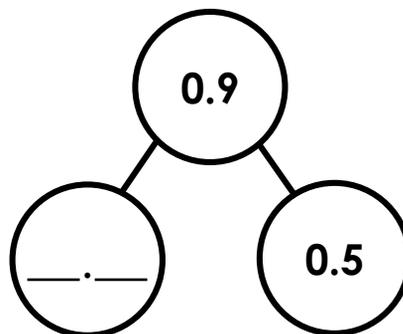
VF

8a. Complete the part whole model.



VF

8b. Complete the part whole model.



VF

Tenths as Decimals

9a. Match the fractions to the correct decimal.

five tenths

0.1

ten tenths

0.5

one tenth

1.0



VF

Tenths as Decimals

9b. Match the fractions to the correct decimal.

seven tenths

0.4

four tenths

0.9

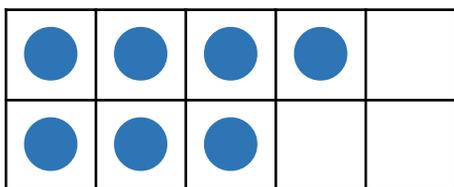
nine tenths

0.7



VF

10a. Use the image to complete the fraction and decimal.

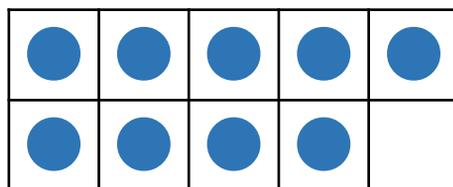


____.____



VF

10b. Use the image to complete the fraction and decimal.

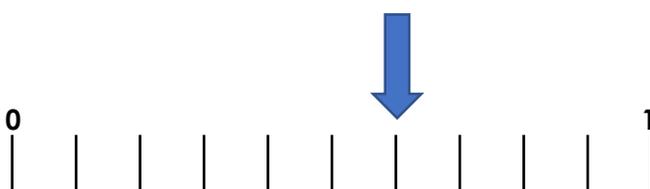


____.____



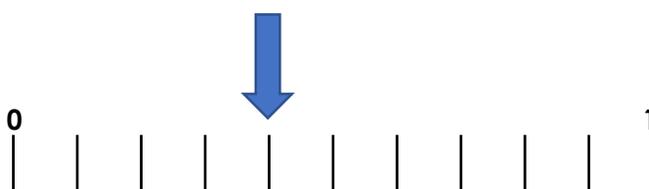
VF

11a. True or false? The arrow shows 0.7.



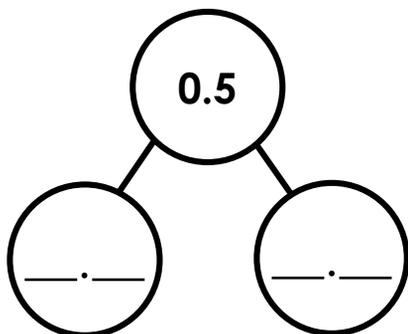
VF

11b. True or false? The arrow shows 0.4.



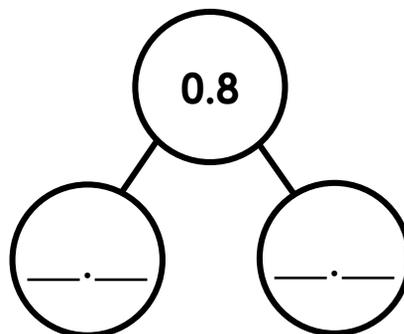
VF

12a. Complete the part whole model.



VF

12b. Complete the part whole model.



VF

Varied Fluency Tenths as Decimals

Developing

1a. $\frac{2}{10} = 0.2$; $\frac{6}{10} = 0.6$; $\frac{8}{10} = 0.8$

2a. 5

3a. True

4a. 0.3

Expected

5a. two tenths = 0.2; $\frac{4}{10} = 0.4$; $\frac{9}{10} = 0.9$

6a. $\frac{6}{10}$ and 0.6

7a. True

8a. 0.3

Greater Depth

9a. five tenths = 0.5; ten tenths = 1.0;
one tenth = 0.1

10a. $\frac{7}{10}$ and 0.7

11a. False, it is pointing to 0.6.

12a. Possible answers: 0.2, 0.3; 0.4, 0.1

Varied Fluency Tenths as Decimals

Developing

1b. $\frac{4}{10} = 0.4$; $\frac{7}{10} = 0.7$; $\frac{1}{10} = 0.1$

2b. 6

3b. False, it is pointing to 0.4.

4b. 0.1

Expected

5b. six tenths = 0.6; three tenths = 0.3;

$\frac{8}{10} = 0.8$

6b. $\frac{8}{10}$ and 0.8

7b. False, it is pointing to 0.1.

8b. 0.4

Greater Depth

9b. seven tenths = 0.7; four tenths = 0.4;
nine tenths = 0.9

10b. $\frac{9}{10}$ and 0.9

11b. True

12b. Possible answers: 0.4, 0.4; 0.6, 0.2; 0.7,
0.1; 0.5, 0.3