

Varied Fluency

Step 4: Tenths on a Number Line

National Curriculum Objectives:

Mathematics Year 4: (4F6b) [Recognise and write decimal equivalents of any number of tenths or hundredths](#)

Differentiation:

Developing Questions to support identifying tenths as fractions and decimals on a number line. Using numbers smaller than 1 whole with all increments and measurements shown.

Expected Questions to support identifying tenths as fractions and decimals on a number line. Using some numbers greater than 1 whole with all increments and some measurements shown.

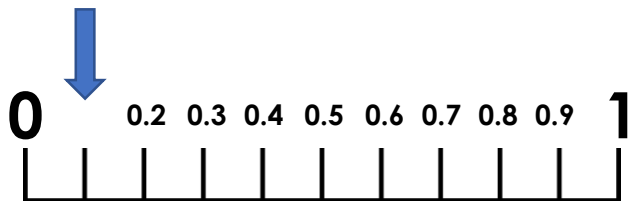
Greater Depth Questions to support identifying tenths as fractions and decimals on number line. All numbers greater than 1 whole with some missing increments.

More [Year 4 Decimals](#) resources.

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

Tenths on a Number Line

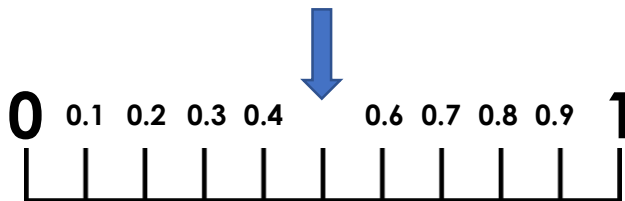
1a. What decimal is the arrow pointing to on this number line?



VF

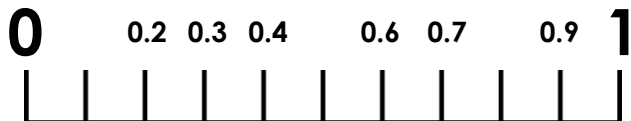
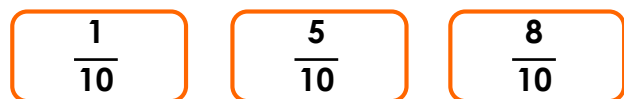
Tenths on a Number Line

1b. What decimal is the arrow pointing to on this number line?



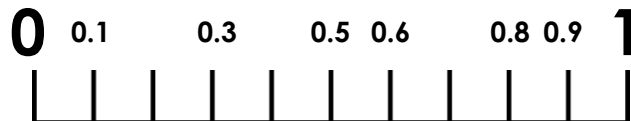
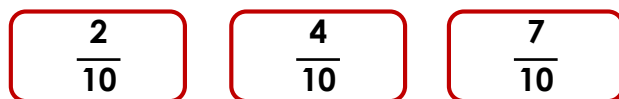
VF

2a. Write the following fractions as decimals on the number line below.



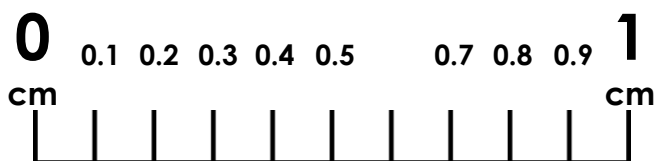
VF

2b. Write the following fractions as decimals on the number line below.



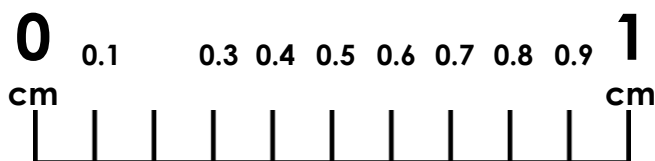
VF

3a. Mark 0.6cm on the number line.



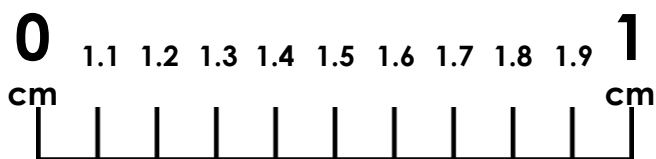
VF

3b. Mark 0.2cm on the number line.



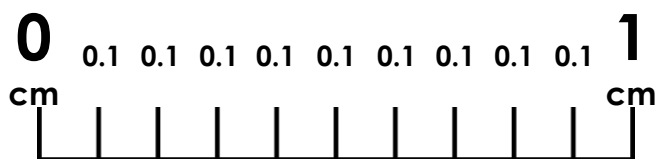
VF

4a. True or false? The decimals on this number line are correct.



VF

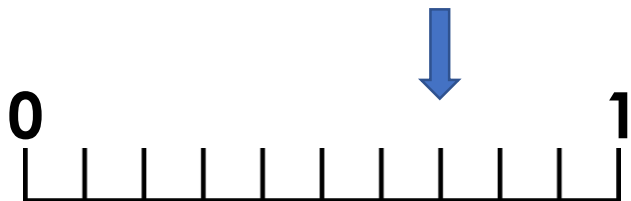
4b. True or false? The decimals on this number line are correct.



VF

Tenths on a Number Line

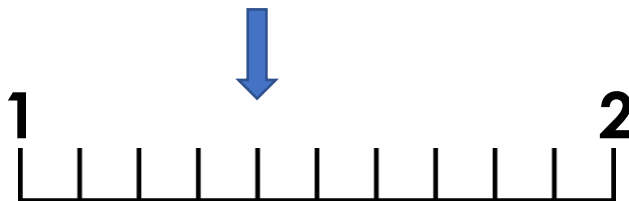
5a. What decimal is the arrow pointing to on this number line?



VF

Tenths on a Number Line

5b. What decimal is the arrow pointing to on this number line?



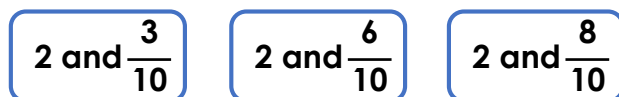
VF

6a. Write the following fractions as decimals on the number line below.



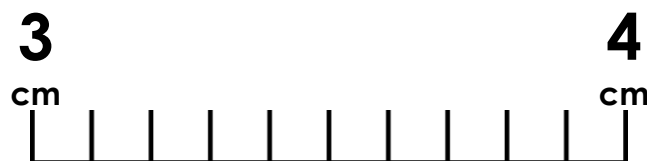
VF

6b. Write the following fractions as decimals on the number line below.



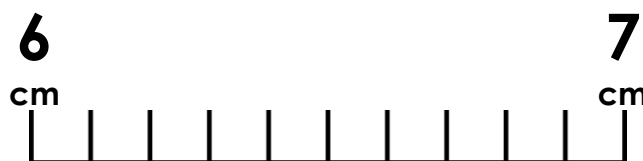
VF

7a. Mark 3.6cm on the number line.



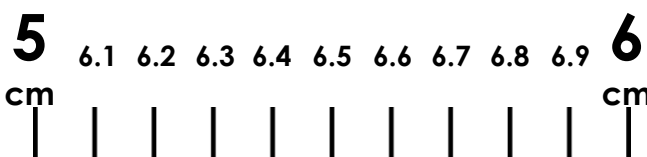
VF

7b. Mark 6.4cm on the number line.



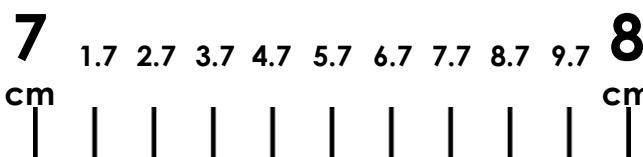
VF

8a. True or false? The decimals on this number line are correct.



VF

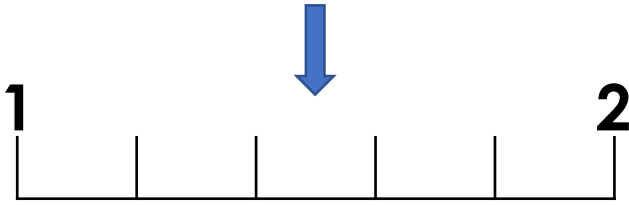
8b. True or false? The decimals on this number line are correct.



VF

Tenths on a Number Line

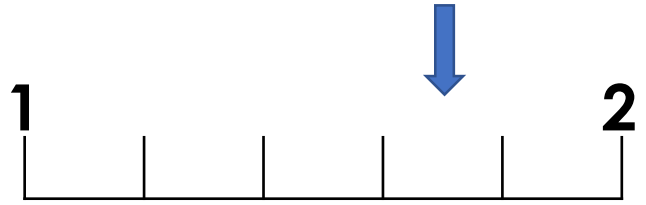
9a. What decimal is the arrow pointing to on this number line?



VF

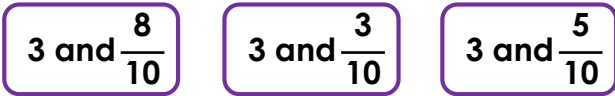
Tenths on a Number Line

9b. What decimal is the arrow pointing to on this number line?



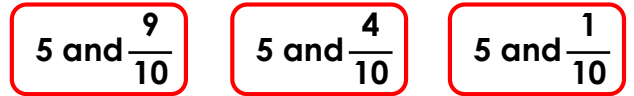
VF

10a. Write the following fractions as decimals on the number line below.



VF

10b. Write the following fractions as decimals on the number line below.



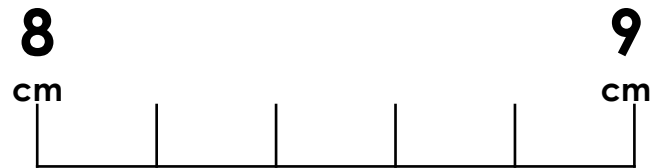
VF

11a. Mark 6.7cm on the number line.



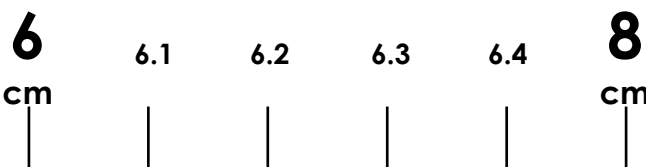
VF

11b. Mark 8.3cm on the number line.



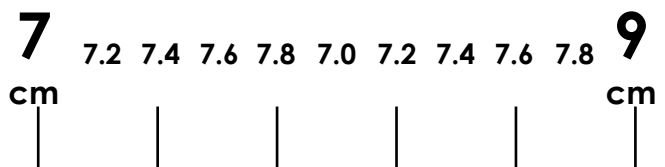
VF

12a. True or false? The decimals on this number line are correct.



VF

12b. True or false? The decimals on this number line are correct.



VF

Varied Fluency Tenths on a Number Line

Developing

- 1a. 0.1
2a. 0.1, 0.5, 0.8 written on the 1st, 5th, and 8th increments on the number line.
3a. 0.6cm written on the 6th increment on the number line.
4a. False, the ones digit in each decimal should be 0.

Expected

- 5a. 0.7
6a. 1.2, 1.5, 1.9 written on the 2nd, 5th and 9th increments on the number line.
7a. 3.6cm written on the 6th increment on the number line.
8a. False, the ones digit in each decimal should be 5.

Greater Depth

- 9a. 1.5
10a. 3.3 in between the 1st and 2nd increments, 3.5 in between the 2nd and 3rd increments and 3.8 on the 4th increment.
11a. 6.7cm in between the 3rd and 4th increment.
12a. False, the increments should be labelled 6.4, 6.8, 7.2 and 7.6.

Varied Fluency Tenths on a Number Line

Developing

- 1b. 0.5
2b. 0.2, 0.4, 0.7 written on the 2nd, 4th and 7th increments on the number line.
3b. 0.2cm written on the 2nd increment on the number line.
4b. False, the tenths digit in each decimal should be going up in tenths, for example: 0.1, 0.2, 0.3 etc.

Expected

- 5b. 1.4
6b. 2.3, 2.6, 2.8 written on the 3rd, 6th and 8th increments on the number line.
7b. 6.4cm written on the 4th increment on the number line.
8b. False, the tenths and ones digits need to be switched e.g 1.7 should be 7.1.

Greater Depth

- 9b. 1.7
10b. 5.1 in between 5 and the 1st increment, 5.4 on the 2nd increment, 5.9 in between the 4th increment and 6.
11b. 8.3cm in between the 1st and 2nd increment.
12b. False, after 7.8 the increments should be labelled 8.0, 8.2, 8.4, 8.6 and 8.8.