Homework/Extension
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:

Questions 1, 4 and 7 (Varied Fluency)
Developing Complete missing decimals on a number line and identify the value of the increments. Using some numbers greater than one and starting at zero.
Expected Complete missing decimals on a number line and identify the value of the increments. Using numbers greater than one.
Greater Depth Complete missing decimals on a number line and identify the value of the increments. All numbers greater than one.

Questions 2, 5 and 8 (Varied Fluency)
Developing Identify the length of different objects using number lines marked in increments of 0.1 or 0.2. Using some numbers greater than one, with all increments marked, and starting at zero.
Expected Identify the length of different objects using number lines marked in different increments. Using some numbers greater than one.
Greater Depth Identify the length of different objects using number lines marked in different increments. Not starting at zero.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Create a number line using decimals. Using some numbers greater than one, with zero given as the starting number.
Expected Create a number line using decimals. Using some numbers greater than one with the given decimal at the start of a number line.
Greater Depth Create a number line using decimals. All numbers greater than one with the given decimal not at the start of the number line.

More Year 4 Decimals resources.

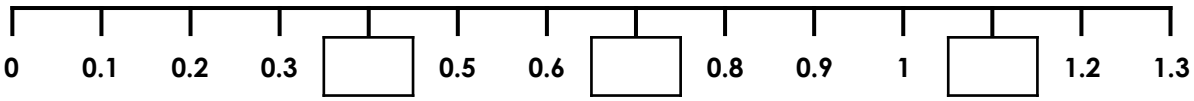
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Tenths on a Number Line

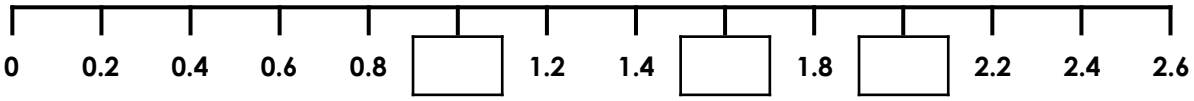
1. Fill in the missing decimal numbers and complete the sentence to describe each of the number lines below.

A.



This number line increases in increments of ___ .

B.

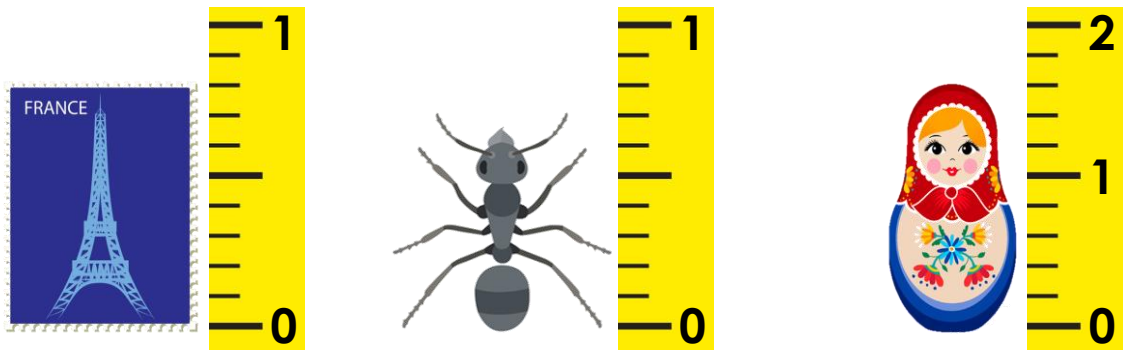


This number line increases in increments of ___ .

D

VF
HW/Ext

2. Measure the images in centimetres using the increments marked on the ruler.



not to scale

D

VF
HW/Ext

3. Complete the number lines using the decimal numbers.



0.2	0.4	0.7	1
0.8	0.3	0.5	0.6

D

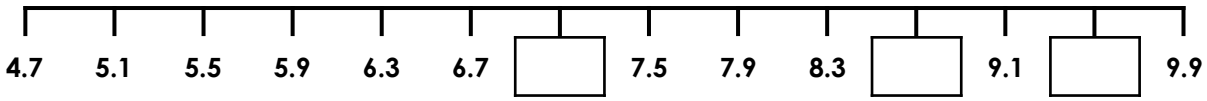
RPS
HW/Ext

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Tenths on a Number Line

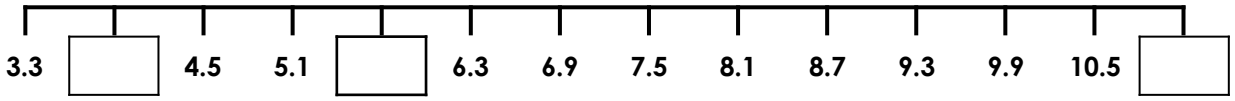
4. Fill in the missing decimal numbers and complete the sentence to describe each of the number lines below.

A.



This number line increases in increments of ___ .

B.



This number line increases in increments of ___ .

E

VF
HW/Ext

5. Measure the images in centimetres using the increments marked on the ruler.



not to scale

E

VF
HW/Ext

6. Complete the number lines using the decimal numbers.



2.1	4.1	1.5	1
1.1	1.2	2.4	1.8

E

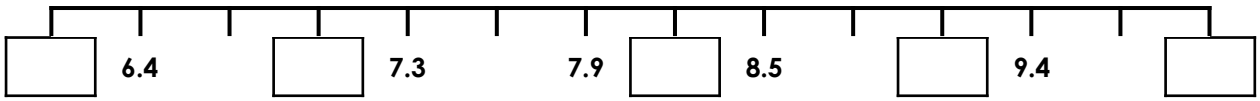
RPS
HW/Ext

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Tenths on a Number Line

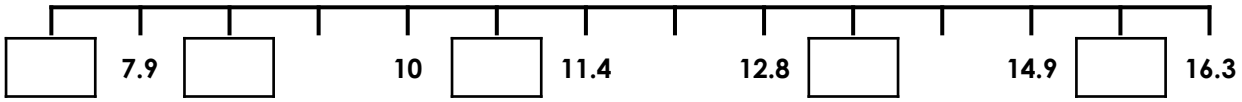
7. Fill in the missing decimal numbers and complete the sentence to describe each of the number lines below.

A.



This number line increases in increments of ___ .

B.



This number line increases in increments of ___ .

GD

VF
HW/Ext

8. Measure the images in metres using the increments marked on the ruler.

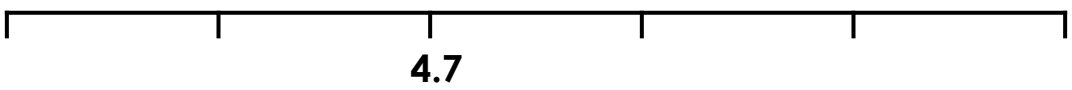


GD

not to scale

VF
HW/Ext

9. Complete the number lines using the decimal numbers.



3.5	3.7	4.2	4.6
5.2	6.2	5.7	3.2

GD

RPS
HW/Ext

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Homework/Extension
Tenths on a Number Line

Developing

1. A. 0.4, 0.7, 1.1 – the number line increases in increments of 0.1;
B. 1, 1.6, 2 – the number line increases in increments of 0.2.
2. stamp – 0.8cm; ant – 0.7cm; Russian doll – 1.6cm
3. 0, 0.2, 0.4, 0.6, 0.8, 1

Expected

4. A. 7.1, 8.7, 9.5 – the number line increases in increments of 0.4;
B. 3.9, 5.7, 11.1 – the number line increases in increments of 0.6.
5. ladybird – 1.2cm; match – 3.2cm; marble – 0.8cm
6. 0.9, 1.2, 1.5, 1.8, 2.1, 2.4

Greater Depth

7. A. 6.1, 7.0, 8.2, 9.1, 10 – the number line increases in increments of 0.3;
B. 7.2, 8.6, 10.7, 13.5, 15.6 – the number line increases in increments of 0.7.
8. trumpet – 0.7m; toy boat – 1.6m; toy UFO – 1.4m
9. 3.7, 4.2, 4.7, 5.2, 5.7, 6.2

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