

Master Reading Scales

Rationale

In this step, pupils build upon their understanding of number lines by reading marked scales with different intervals and identifying numbers on scales with a range of intervals. Pupils will build on their understanding of multiples to identify missing numbers where the intervals are unlabelled on different scales using the mid-point between two numbers as a reference.

They will apply their understanding to horizontal, vertical and circular scales in preparation for their work on measures.



Key Stem Sentences

- The value of each major / minor interval is ____
- ____ is here on the scale.
- ____ is the mid-point between ____ and ____



Key Vocabulary

- interval
- mid-point
- scale



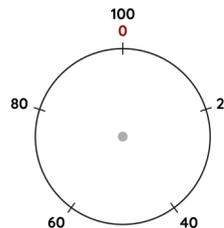
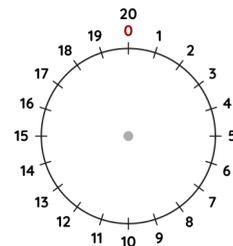
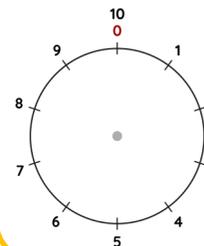
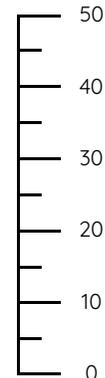
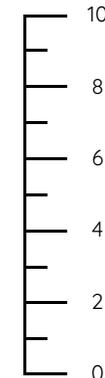
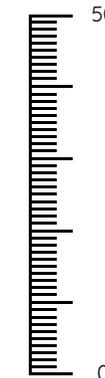
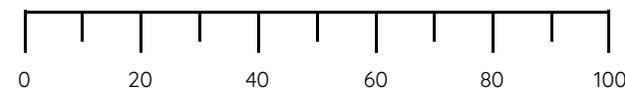
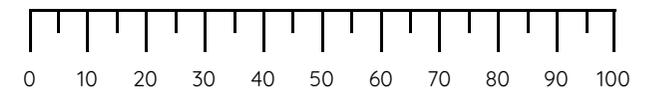
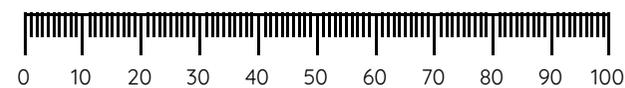
Common Errors or Misconceptions

- Pupils may miscount the intervals.
- Pupils may think that all scales are horizontal.



Key Representations

Horizontal, vertical and circular scales



Pupils will FLOURISH if they can...

- read scales and identify numbers on marked scales with different intervals.
- use their knowledge of multiples and of the mid-point to identify missing numbers.
- read scales in different orientations.
- explain their understanding using written sentences, concrete apparatus and given representations.

