Unit 3. Compare Numbers

National Curriculum Requirement

Identify, represent and estimate numbers using different representations, including the number line

Notes

A number may be thought of as a cardinal value (how many of something 2 flowers, 3 cups, etc) or as an ordinal value (positional value first, second, third, etc) These positions are, of course, dependent on the number's size but this is not related to some physical entity and could be thought of as a number's intrinsic magnitude.

To help pupils to begin to understand this latter concept, number lines are very useful. These show the ordinal positions related to size. Number lines are, of course, of infinite length but it is only possible to show parts of any line. It is worth pointing out to pupils that the lines do go on for ever in both directions. A common misunderstanding amongst pupils is that the line starts at 0 and finishes at 100.

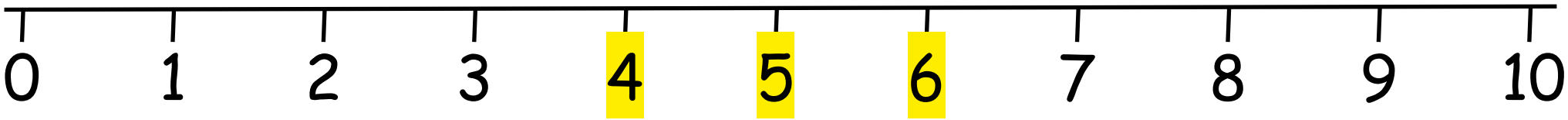
It is also important that pupils understand that the numbers greater and smaller than two values do not include these values. The numbers, for example, greater than 5 and smaller than 8 do not include the numbers 5 and 8.

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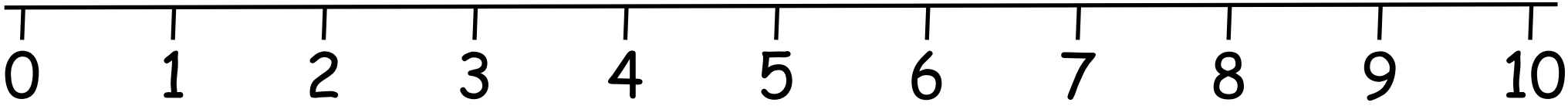
Showing Values on Number Lines

Show the whole numbers on the lines which are the answers to these problems.
The first one has been done for you.

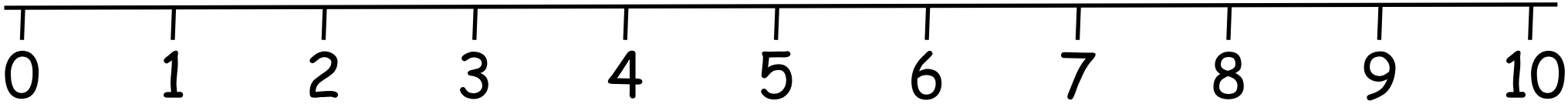
Whole numbers bigger than 3 but smaller then 7.



The whole number bigger than 8 but smaller then 10.

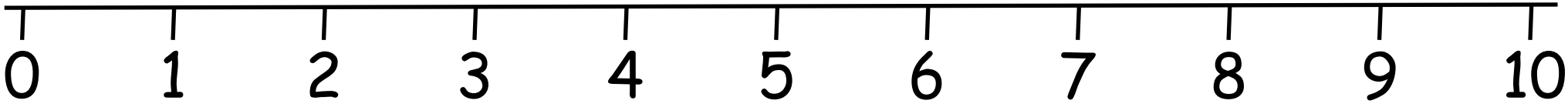


The whole numbers bigger than 2 but smaller then 5.

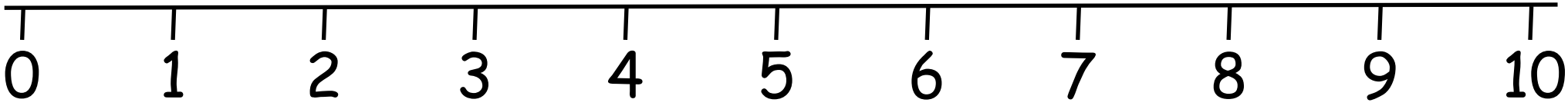


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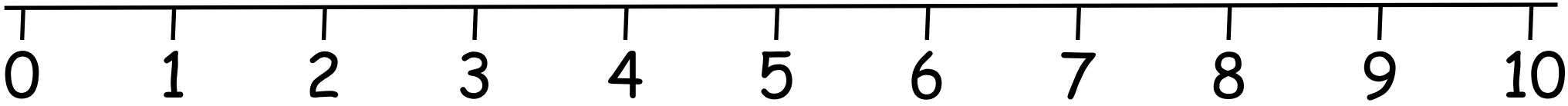
The whole numbers bigger than 6 but smaller then 9.



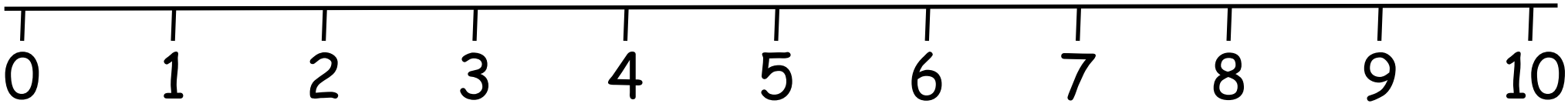
The whole numbers bigger than 1 but smaller then 5.



The whole numbers bigger than 2 but smaller than 6.



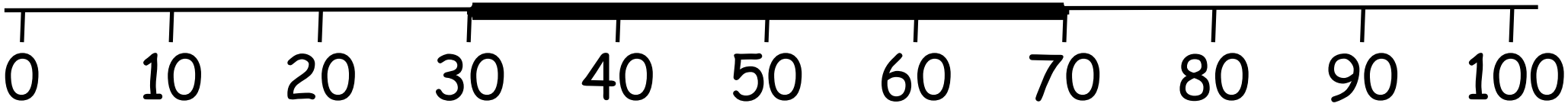
The whole numbers bigger than 7 but smaller then 10.



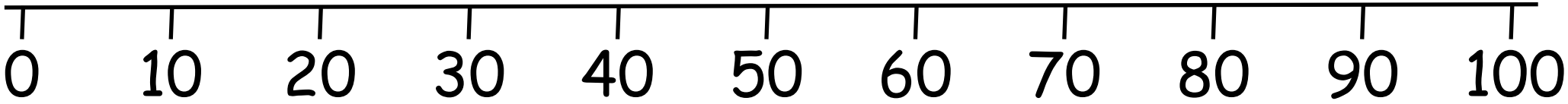
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Shade in to show where these numbers will be on the number lines. The first one has been done for you. Notice 30 and 70 are not included.

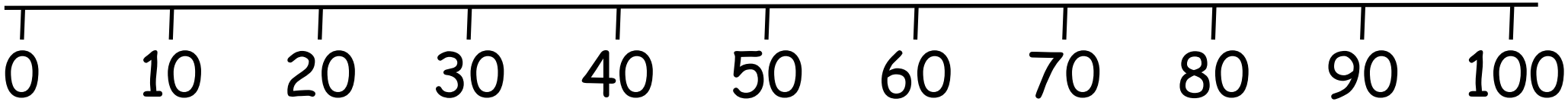
The numbers bigger than 30 but smaller then 70.



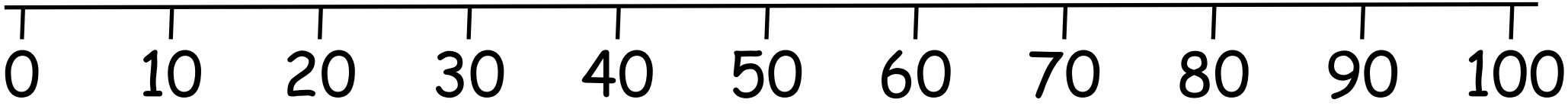
The numbers bigger than 10 but smaller then 50.



The numbers bigger than 20 but smaller then 90.



The numbers bigger than 25 but smaller then 75.



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