

H. Decimal numbers on the number line

32. Density of the decimal numbers

! Use the lines on the cardboard sheet and the magnifier.

1 a. Mark the following numbers on one of the lines on the cardboard sheet.

0.909

0.17

0.829

0.643

0.099

b. Look at the drawing and write which numbers are in each of the following domains (encircle each number as you copy it):

- from 0 to 0.5 : _____
- from 0.9 to 1 : _____

2 a. Mark the numbers 0.3 and 0.4 on one of the lines.

b. Mark on the same line a number that lies between them. Write this number here : _____

c. Mark on the line and write here several other numbers that lie between 0.3 and 0.4 : _____

d. Mark on the line and write here a number that lies between 0.31 and 0.32 : _____

Write several other such numbers : _____

3 Consider the decimal number 0.437:



a. Take a number line with a thousandth partition on it, and mark on it the given number. What are the decimal numbers closest to 0.437 that are marked on this line? _____

b. Now mark **approximately** the number 0.437 on a number line **without** a thousandth partition. What are the decimal numbers closest to 0.437 that are marked on this line? _____

c. Now mark **approximately** the number 0.437 on a number line **without** a hundredth partition. What are the decimal numbers closest to 0.437 that are marked on this line? _____