Exercise 7.5

Question: 1

Fill in the blanks by using > or < to complete the following.

i) 25.35 > 8.47

ii) 20.695 < 20.93

iii) 0.39 < 0.72

iv) 0.109 < 0.83

v) 0.236 > 0.201

vi) 0.93 < 0.99

Solution:

i) Here, the whole part 23 > 8
ii) Here the whole parts are equal. Hence, we should check the tenth parts. Now 9 is greater than 6.

$$\text{Therefore, } 20+\frac{6}{10}+\frac{9}{100}+\frac{5}{1000}<20+\frac{9}{10}+\frac{3}{100}$$

iii) Here both the whole parts are 0. Hence, we should check the tenth part, now, 3 < 7
iv) Here both the whole parts are 0. Hence, we should check the digit in the tenth parts 1< 8
v) Here both the whole parts are 0. Hence, we should check the tenth parts in the two numbers, which are again equal. So we should check the hundredth digit 3 > 0
vi) Here both whole parts are 0. Hence, we should check the digits in the tenth place which is again equal. So, digit in the hundredth place 3 < 9

Question: 2

Which is greater? Give reason for your answer?

i) 1.008 < 1.800

ii) 3.3 = 3.300

iii) 5.64 > 5.603

iv) 1.431 < 1.439

v) 0.5 > 0.05

Solution:

i) The whole parts are equal, and comparing the tenth parts, we have 0 < 8
ii) The whole parts and the tenth parts are both equal.
iii) The whole parts and the digit in the tenth place are equal. But, comparing the digits in the hundredth's place we get 4 > 0

1.5 = 1.50

The whole parts and the digits in the tenth's place are equal.

iv) The whole parts, the digit in the tenth's and hundredth's place are equal. But comparing the digits in the thousandth's place 1 < 9
v) Here the whole parts are both 0. Comparing the tenth's place, we have 5 > 0