Exercise 7.5

Q.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) 25.35 ..... 8.47

∵ By checking whole numbers, 25 > 8

Therefore 25.35 > 8.47

(ii) 20.695 ..... 20.93

here, whole number parts are equal, so by checking tenths part, 9 > 6

∴ 20.695 < 20.93

(iii) 0.39 ..... 0.72

here, whole number part is zero, so by comparing tenths part 7 > 3

∴ 0.39 < 0.72

(iv) 0.109 ..... 0.83

here whole number parts are zero. So by comparing tenths part 1 < 8 ∴ 0.109 < 0.83

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(V) 0.236 ..... 0.201

here whole number part, also tenths part are equal, so by comparing hundredths part

$3 > 0$

$\therefore 0.236 > 0.201$

(VI) 0.93 ..... 0.99

here whole number part are equal, also tenths part are equal. so by comparing tenths part we have $3 < 9$

$\therefore 0.93 < 0.99$

Q.2 Which is greater? Give reason for your answer?

(i) 1.008 or 1.800 (ii) 3.3 or 3.300

(iii) 5.64 or 5.603 (iv) 1.5 or 1.50

(v) 1.431 or 1.439 (vi) 0.5 or 0.05

Solution (i) In 1.008 and 1.800, we observe that whole number part is equal, so by comparing tenths part $8 > 0$

Therefore $1.800 > 1.008$

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(ii) In 3·3 and 3·300

there, we observe that whole number part and tenths part are equal

$\therefore$ 3·3 = 3·300

(iii) In 5·64 and 5·603, these whole number part and tenths parts are equal. so by comparing hundredths part

4 > 0

$\therefore$ 5·64 > 5·603

(iv) 1·5 and 1·50, these whole number part and tenths part are equal

so 1·5 = 1·50

(v) 1·431 and 1·439, these whole number part, tenths part, hundredths parts are equal.

So by comparing thousandths part

9 > 1

$\therefore$ 1·439 > 1·431

(vi) 0·5 or 0·005, these whole number part are equal, so by comparing tenths part.

$\because$ 5 > 0

$\therefore$ 0·5 > 0·005

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