Exercise 7.7

Q.1 Choose the decimal(s) from the brackets which is (are) not equivalent to the given decimals:

(i) 0.8 (0.80, 0.85, 0.800, 0.08)

(ii) 25.1 (25.01, 25.10, 25.100, 25.001)

(iii) 45.05 (45.050, 45.005, 45.500, 45.0500)

Solution: As we know that the Numbers obtained by inserting zeros after the extreme right digit in the decimal part of a decimal number are known as equivalent decimals. therefore

(i) 0.80 and 0.800 are equivalent to 0.8, but 0.85 and 0.08 are not equivalent to 0.8.

(ii) here 25.10 and 25.100 are equivalent to 25.1 but 25.01 and 25.001 are not equivalent to 25.1

(iii) here, 45.050, 45.0500 are equivalent to 45.05 but 45.005 and 45.500 are not equivalent to 45.05.

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Q.2 Which of the following are like decimals:

(i) 0.34 , 0.07 , 5.35 , 24.70

(ii) 45.05 , 4.505, 20.55, 20.5

(iii) 8.80 , 17.08, 8.94, 0.27

(iv) 4.50 , 16.80, 0.700, 7.08

Solution: The decimals having same number of digits on the right of the decimal point are known as like decimals. Therfore (i) and (iii) are like decimals as they are having two decimal places.

Q.3 Which of the following statements are correct?

(i) 8.05 and 7.95 are like decimals

(ii) 0.95 , 0.306 , 7.10 are unlike decimals.

(iii) 3.70 and 3.7 are like decimals

(iv) 13.59, 1.359, 135.9 are like decimals.

(v) 5.60 , 3.04 and 0.45 are like decimals.

Solution (i) Correct as both having two decimal place

(ii) Incorrect, As 0.95 and 7.10 and 0.306 all have different decimal places.

(iii) Correct, as 3.70 and 3.7 having one decimal place

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(iv) Incorrect, as all having different decimal places

(v) Correct, as all having same decimal places.

Q4 Convert each of the following sets of unlike decimals to like decimal.

(i) 7.8, 7.85 (ii) 2.02, 3.2 (iii) 0.6, 5.8, 12.765

(iv) 5.296, 5.2, 5.29 (v) 4.3294, 43.29, 432.94

Solution

Unlike decimals	Like decimals.
(i) 7.8, 7.85	7.80, 7.85
(ii) 2.02, 3.2	2.02, 3.20
(iii) 0.6, 5.8, 12.765	0.600, 5.800, 12.765
(iv) 5.296, 5.2, 5.29	5.296, 5.200, 5.290
(v) 4.3294, 43.29, 432.94	4.3294, 43.2900, 432.9400

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