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Table Chart Questions for IBPS RRB Scale I (MAINS) Exams – Table Chart Quiz at Smartkeeda.

DI Table Chart No 132

Directions : Study the following table chart carefully and answer the questions given beside.

A waste collection vehicle collects waste from various houses namely A, B, C, D and E. The wastes are of two types: dry and wet.

The wet waste use to have some water in it which can be dried up to make the waste a little dry. Such a wet waste after being dried up is called drained waste. It is NOT necessary that the drained waste is completely free of water. The amount of water, if present in the drained waste, will be given in the questions.

The table below shows the information about the types of waste in kg which are being collected and other information.

House	Dry Waste (kg)	Wet Waste (kg)	Ratio of weight of dry waste to drained waste
A	4.0	_____	10 : 7
B	_____	_____	10 : 9
C	3.6	_____	_____
D	_____	7.2	2 : 1
E	3.2	_____	_____

1. The wet waste which was collected from house A released some water on drying and its weight reduced by $70\frac{5}{6}\%$ so that it is now the drained waste. If the drained waste still has 14.28% water, how many kilograms of total water was present in the wet waste from house A?

- A. 0.4 B. 2.8 C. 4.0 D. 6.8 E. 7.2

2. The wet waste from house B had released some water on drying it (to make it drained waste). The weight of water released was 0.7 kg less than twice the weight of dry waste from house B. The total waste that had been collected from house B was 11 kg. Find the water released from the wet waste.

- A. 4.9 kg B. 5.3 kg C. 5.6 kg D. 8 kg E. Can't be determined

3. Drained waste from house C was 80% of dry waste from house A. The drained waste still has 6.25% water which is $2\frac{6}{7}\%$ of total water present in the wet waste. Find how many kg of wet waste was collected from house C.

- A. 3.2 kg B. 3 kg C. 7 kg D. 10 kg E. 10.2 kg

4. The average dry waste collected from houses A, C, D and E was 3.9 kg. Find the percent of water present in the wet waste collected from house D if the drained waste had 16.67% water.

- A. 56.5% B. 64% C. 72.22% D. 80% E. None of these

5. The drained waste which was made from the wet waste from house E had 12.5% water. If the ratio of dry waste to wet waste was 8 : 21 and total water present in the wet waste was 75%, find the ratio of amount of wet waste to drained waste.

- A. 2 : 1 B. 4 : 1 C. 4 : 3 D. 3 : 2 E. 7 : 2



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Correct Answers:

1	2	3	4	5
E	B	D	C	E

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Explanations:

1.

$$\text{Weight of drained waste} = \frac{4}{10} \times 7 = 2.8 \text{ kg}$$

Let the weight of wet waste collected from house A was $240y$ kg.

When it is dried, it reduces $70\frac{5}{6}\%$ weight, so new weight

$$= 240y - 70\frac{5}{6}\% \text{ of } 240y$$

$$= (240y) \times \left[1 - \frac{425}{600}\right] = 70y \text{ kg}$$

This is equal to 2.8 kg, so

$$70y = 2.8 \rightarrow y = 0.04$$

So, weight of wet waste = $240 \times 0.04 = 9.6$ kg

$$\text{Water in it} = 9.6 - 2.8 = 6.8 \text{ kg}$$

$$\text{Water in the drained waste} = 14.28\% \text{ of } 2.8 \text{ kg} = 0.4 \text{ kg}$$

$$\text{Total water} = 6.8 + 0.4 = 7.2 \text{ kg}$$

Hence, option E is correct.



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2.

Let the weight of dry and wet waste from house B is $10y$ and $10z$ kg respectively.

Weight of water = $(2 \times 10y - 0.7)$ kg

Weight of drained waste = $10z - (2 \times 10y - 0.7)$ kg

From the table, we have

$$10y : 10z - (2 \times 10y - 0.7) = 10 : 9$$

$$29y - 10z = 0.7 \text{ -----(i)}$$

$$\text{Total waste} = 10y + 10z = 11 \text{ -----(ii)}$$

Solving (i) and (ii), we get $y = 0.3$

Amount of dry waste = 3 kg

Amount of water released from wet waste = $2 \times 3 - 0.7 = 5.3$ kg

Hence, option B is correct.

3.

Drained waste from house C = 80% of 4 kg = 3.2 kg

The amount of water in the drained waste = 6.25% of 3.2 = 0.2 kg

Let there was total y kg water in the wet waste, then

$$\frac{0.2}{y} \times 100 = 2\frac{6}{7}$$

We get $y = 7$

Total amount of wet waste from house C = $7 + (3.2 - 0.2) = 10$ kg

Hence, option D is correct.

4.

We have dry waste of $A + C + D + E = 4 \times 3.9 \rightarrow$ dry waste of $D = 4.8$ kg

$$\text{Amount of drained waste} = \frac{1}{2} \times 4.8 = 2.4 \text{ kg}$$

Amount of water in drained waste = 16.67% of 2.4 kg = 0.4 kg

$$\text{Total water} = 7.2 - (2.4 - 0.4) = 5.2 \text{ kg}$$

$$\text{Percent} = \frac{5.2}{7.2} \times 100 = 72.22\%$$

Hence, option C is correct.

5.

$$\text{Amount of wet waste} = \frac{21}{8} \times 3.2 = 8.4 \text{ kg}$$

Amount of water in wet waste = 75% of 8.4 = 6.3 kg

$$\text{Amount of waste in wet waste} = 8.4 - 6.3 = 2.1 \text{ kg}$$

Now, in the drained waste, there must be this 2.1 kg waste and some water which is 12.5% of total waste,

Let the amount of drained waste was y kg, then

$$\frac{y}{2.1 + y} \times 100 = 12.5$$

We get $y = 0.3$

$$\text{Amount of drained waste} = 2.1 + 0.3 = 2.4 \text{ kg}$$

$$\text{Ratio of wet waste to drained waste} = 8.4 : 2.4 = 7 : 2$$

Hence, option E is correct.



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