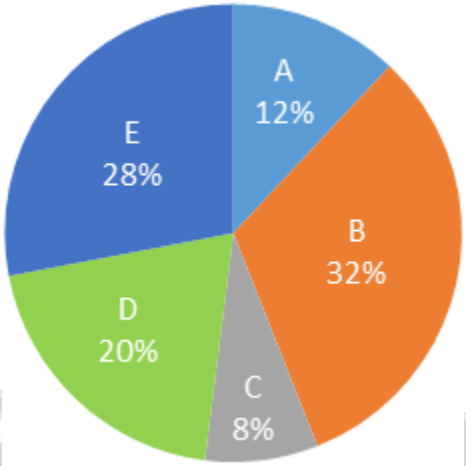
Date Interpretation Pie Chart Questions for IBPS Clerk Mains, SBI Clerk Mains, IBPS PO Pre, SBI PO Pre, IBPS SO Pre and RRB Scale I Pre Exams.

DI Pie Chart Quiz 31

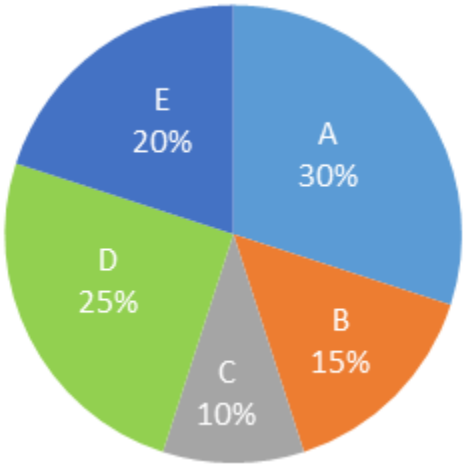
Directions: Study the following pie charts carefully & answer the questions given below it.

A tank contains 2400 litres mixture of milk and water in the ratio 2 :1 respectively. The mixture is distributed in five vessels. Percentage wise distribution of quantity of milk and percentage wise distribution of water in five vessels is given in the following pie charts.

Quantity of milk in five vessels



Quantity of water in five vessels



1. Quantity of milk in vessels A and E together is what percent of quantity of water in vessel D?

A. 410% B. 350% C. 320% D. 280% E. None of these

2. Find the respective ratio of quantity of water in vessels B and C together and quantity of milk in vessel D.

A. 5 : 8 B. 4 : 9 C. 8 : 5 D. 9 : 4 E. None of these

3. Another vessel F also contains a mixture of milk and water. Quantity of milk in vessel F is 20% more than the quantity of milk in vessel C and quantity of water in vessel F is 20% less than the quantity of water in vessel C. Find the respective ratio of milk and water in vessel F.

A. 5 : 4 B. 12 : 5 C. 4 : 5 D. 5 : 12 E. None of these

4. Find the sum of quantity of milk in vessels B and D together and quantity of water in vessels D and E together.

A. 1542 litres B. 1192 litres C. 1232 litres D. 1058 litres E. None of these

5. Quantity of mixture in vessel C is what percent more/less than the quantity of mixture in vessel E?

A. 65.78% more B. 54.26% less C. 65.78% less D. 52.68% more E. None of these

6. Find the difference between quantity of mixture in vessel A and vessel D.

A. 88 litres B. 46 litres C. 65 litres D. 92 litres E. None of these

Correct Answers:

1	2	3	4	5	6
C	A	B	B	C	A

Explanations:

1.

Total quantity of milk = $\frac{2}{3} \times 2400 = 1600$ litres.

Total quantity of water = 2400 – 1600 = 800 litres.

Quantity of milk in vessels A and E together

$= \frac{12 + 28}{100} \times 1600 = 640$ litres

Quantity of water in vessel D

$= \frac{25}{100} \times 800 = 200$ litres

Reqd. % = $\frac{640}{200} \times 100 = 320\%$

Hence, option C is correct.

2.

Total quantity of milk $= \frac{2}{3} \times 2400 = 1600$ litres.

Total quantity of water = 2400 – 1600 = 800 litres.

Quantity of water in vessels B and C together $= \frac{15 + 10}{100} \times 800 = 200$ litres

Quantity of milk in vessel D $= \frac{20}{100} \times 1600 = 320$ litres

Required ratio = 200 : 320 = 5 : 8
Hence, option A is correct.

3.

Total quantity of milk $= \frac{2}{3} \times 2400 = 1600$ litres.

Total quantity of water = 2400 – 1600 = 800 litres.

Quantity of milk in vessel C $= \frac{8}{100} \times 1600 = 128$ litres

Quantity of milk in vessel F $= 128 \times \frac{120}{100} = 153.6$ litres

Quantity of water in vessel C $= \frac{10}{100} \times 800 = 80$ litres

Quantity of water in vessel F $= 80 \times \frac{80}{100} = 64$ litres

Required ratio = 153.6 : 64 = 12 : 5
Hence, option B is correct.

4.

Total quantity of milk $= \frac{2}{3} \times 2400 = 1600$ litres.

Total quantity of water = 2400 – 1600 = 800 litres.

Quantity of milk in vessels B and D together $= \frac{32 + 20}{100} \times 1600 = 832$ litres

Quantity of water in vessels D and E together $= \frac{25 + 20}{100} \times 800 = 360$ litres

Required sum = 832 + 360 = 1192 litres.
Hence, option B is correct.

5.

Total quantity of milk = $\frac{2}{3} \times 2400 = 1600$ litres.

Total quantity of water = 2400 – 1600 = 800 litres.

Quantity of milk in vessel C = $\frac{8}{100} \times 1600 = 128$ litres

Quantity of water in vessel C = $\frac{10}{100} \times 800 = 80$ litres

Quantity of mixture in vessel C= 128 + 80 = 208 litres

Quantity of milk in vessel E = $\frac{28}{100} \times 1600 = 448$ litres

Quantity of water in vessel E = $\frac{20}{100} \times 800 = 160$ litres

Quantity of mixture in vessel E = 448 + 160 = 608 litres

Reqd. % = $\frac{608 - 208}{608} \times 100$

= $\frac{400}{608} \times 100 = 65.78\%$ less

Hence, option C is correct.

6.

Total quantity of milk = $\frac{2}{3} \times 2400 = 1600$ litres.

Total quantity of water = 2400 – 1600 = 800 litres.

Quantity of milk in vessel A = $\frac{12}{100} \times 1600 = 192$ litres

Quantity of water in vessel A = $\frac{30}{100} \times 800 = 240$ litres

Quantity of mixture in vessel A = 192 + 240 = 432 litres

Quantity of milk in vessel D = $\frac{20}{100} \times 1600 = 320$ litres

Quantity of water in vessel D = $\frac{25}{100} \times 800 = 200$ litres

Quantity of mixture in vessel D = 320 + 200 = 520 litres

Required difference = 520 – 432 = 88 litres

Hence, option A is correct.