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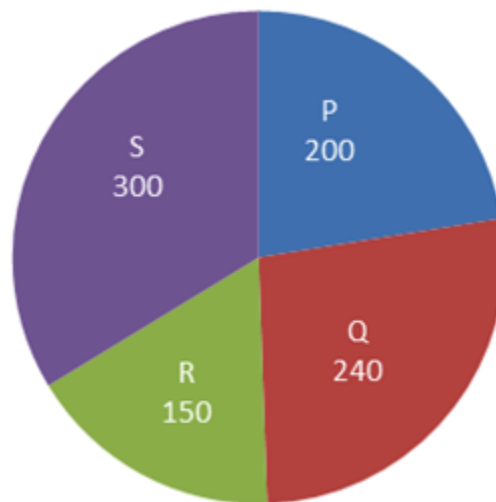
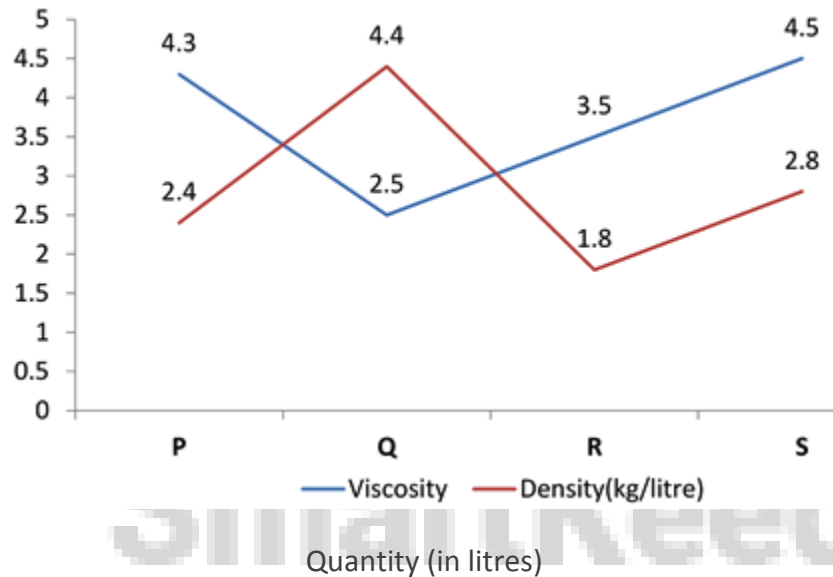
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# Date Interpretation Mixed Chart Questions Quiz for Bank PO Pre and Clerk Mains Exams.

## Data Interpretation Mixed Chart Quiz 20

Direction: Study the following line chart and pie chart carefully and answer the questions based on it.

Below is given a line chart that shows viscosity and density of some liquids. A pie chart is also given that shows the quantity of each of those liquids available.



$$\text{Weight} = \text{Volume} \times \text{Density}$$

1. What is the weight of liquid R, that is available?(in kg)

A. 240

B. 255

C. 270

D. 285

E. 300

2. The flow of a liquid is inversely proportional to its viscosity. If all of liquid P takes 3 hours to flow, then what will be the time taken by all of liquid Q to flow?(in hours)

- A. 4                      B. 5.125                      C. 6.192                      D. 6.375                      E. 7.5

3. By what percentage is weight of liquid S less than that of liquid Q?

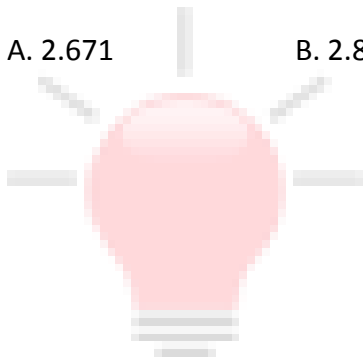
- A. 20.45%                      B. 22.22%                      C. 26.71%                      D. 28.14%                      E. 30%

4. If weights of all the liquids available are represented in a pie chart, then what will be the angle subtended by the sector representing liquid R at the centre?(in degrees)

- A. 32.29                      B. 36.73                      C. 39.18                      D. 42.25                      E. 45

5. If all liquids are mixed together, then what will be the resultant density of mixture?(in kg/litre)

- A. 2.671                      B. 2.81                      C. 2.973                      D. 3.043                      E. 3.117



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**Correct Answers:**

1	2	3	4	5
C	C	A	B	C

**Explanations:**

1. We know,  
Weight = Volume  $\times$  Density  
 $\therefore$  Weight of liquid R =  $150 \times 1.8 \text{ kg} = 270 \text{ kg}$   
Hence, option (C) is correct.

**2.** 200 litres of liquid P flows in 3 hours.

1 litre of liquid P will flow in  $\frac{3}{200}$  hours

The flow of a liquid is inversely proportional to its viscosity.

$$\Rightarrow \text{Time taken by 1 litre liquid Q to flow} = \frac{\frac{3}{200} \times 4.3}{2.5} = 0.0258 \text{ hours}$$

$$\Rightarrow \text{Time taken by 240 litres liquid Q to flow} = 240 \times 0.0258 \text{ hours} = 6.192 \text{ hours}$$

Hence, option (C) is correct.

**3.** Weight = Volume  $\times$  Density

$$\Rightarrow \text{Weight of liquid S} = 300 \times 2.8 \text{ kg} = 840 \text{ kg}$$

$$\Rightarrow \text{Weight of liquid Q} = 240 \times 4.4 \text{ kg} = 1056 \text{ kg}$$

Percentage by which weight of liquid S is less than that of liquid Q

$$= \frac{1056 - 840}{1056} \times 100 = 20.45\%$$

Hence, option (A) is correct.

**4.** Weight = Volume  $\times$  Density

$$\Rightarrow \text{Weight of liquid P} = 200 \times 2.4 \text{ kg} = 480 \text{ kg}$$

$$\Rightarrow \text{Weight of liquid S} = 300 \times 2.8 \text{ kg} = 840 \text{ kg}$$

$$\Rightarrow \text{Weight of liquid Q} = 240 \times 4.4 \text{ kg} = 1056 \text{ kg}$$

$$\Rightarrow \text{Weight of liquid R} = 150 \times 1.8 \text{ kg} = 270 \text{ kg}$$

$$\therefore \text{Angle subtended} = \frac{270}{480 + 840 + 1056 + 270} \times 360 \text{ degrees}$$

$$= 36.73 \text{ degrees}$$

Hence, option (B) is correct.

**5.** Weight = Volume  $\times$  Density

$$\Rightarrow \text{Weight of liquid P} = 200 \times 2.4 \text{ kg} = 480 \text{ kg}$$

$$\Rightarrow \text{Weight of liquid S} = 300 \times 2.8 \text{ kg} = 840 \text{ kg}$$

$$\Rightarrow \text{Weight of liquid Q} = 240 \times 4.4 \text{ kg} = 1056 \text{ kg}$$

$$\Rightarrow \text{Weight of liquid R} = 150 \times 1.8 \text{ kg} = 270 \text{ kg}$$

$$\text{Total weight} = (480 + 840 + 1056 + 270) \text{ kg} = 2646 \text{ kg}$$

$$\text{Total volume} = (200 + 240 + 150 + 300) \text{ litres} = 890 \text{ litres}$$

$$\therefore \text{Resultant density} = \frac{\text{Weight}}{\text{Volume}} = \frac{2646}{890} = 2.973 \text{ kg/litre}$$

Hence, option (C) is correct.



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