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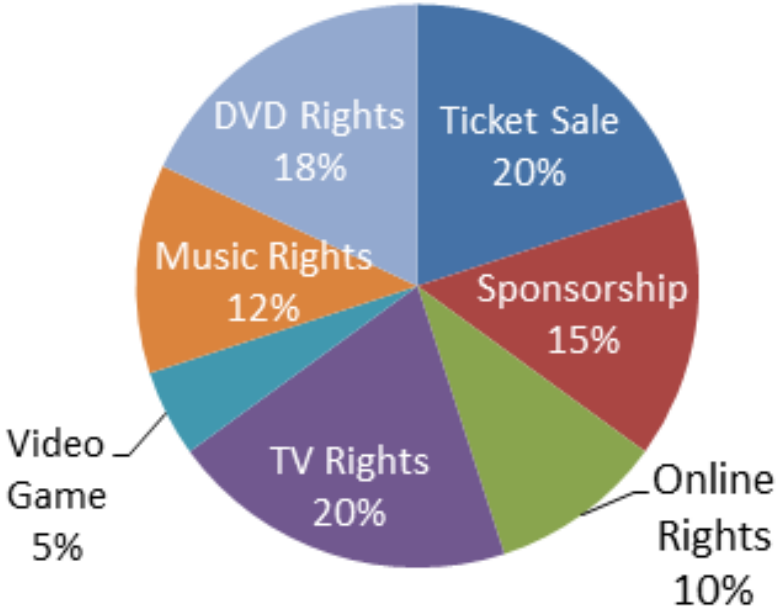
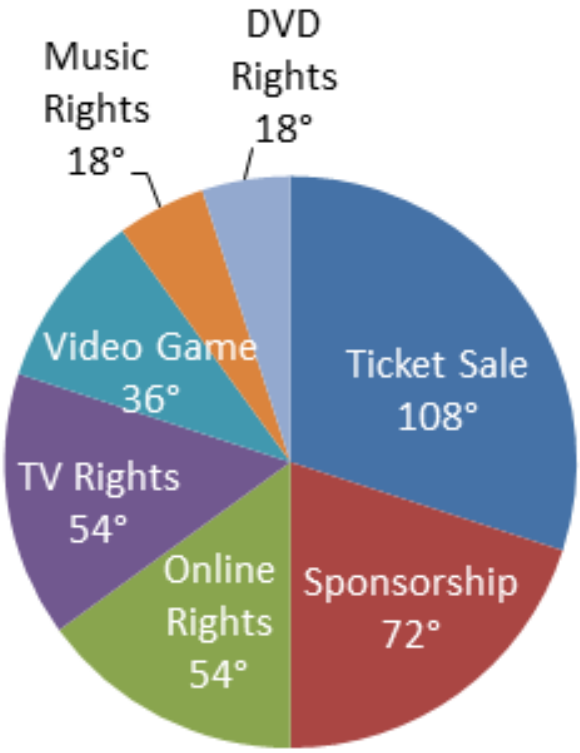
Date Interpretation Pie Chart Questions for Bank PO Exams.

DI Pie Chart Quiz 26

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



Collection distribution of Bahubali 1 out of total collection of 250 crore



Collection distribution of Bahubali 2 out of total collection of 500 crore

1. If the earnings of Video Game Rights of Bahubali 1 increase by 8% and the earnings of Music Rights decrease by 10%, how much more/less money would Bahubali 1 earn than Bahubali 2 in the mentioned segments?

A. 34.5 crore more B. 34.5 crore less C. 32.5 crore more D. 32.5 crore less E. None of these

2. How much more/less money was earned through TV Rights and DVD Rights taken together by Bahubali 2 than Bahubali 1?

A. 5 crore more B. 5 crore less C. 8 crore more D. 8 crore less E. None of these

3. Find the variation between the percentage increase in the Ticket Sale and percentage increase in the sale done through Video Game rights from Bahubali 1 to Bahubali 2.

A. 25% B. 45% C. 50% D. 100% E. None of these

4. What is the percentage increase in the angle subtended at the centre by Sponsorship in Bahubali 2 over that in Bahubali 1?

A. 66.66% B. 50% C. 33.33% D. 25% E. None of these

5. If the overall collection of Bahubali 2 increases by 50% due to phenominal increase in ticket sale and sponsorship happening overseas, by how much percent the other angular collection distribution of other categories will decrease?

A. 25% B. 33.33% C. 66.66% D. 100% E. None of these

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Correct Answers:

1	2	3	4	5
B	A	D	C	B

Explanations:

1. **From Bahubali 1:**

The money earned through Video Game Rights = 5% of 250 crore = 12.5 crore

∴ Earnings after 8% increase = 108% of 12.5 crore = 13.5 crore

The money earned through Music Rights = 12% of 250 crore = 30 crore

∴ Earning after 10% decrease = 90% of 30 = 27 crore

Now, the total money earned through Video Games Rights and Music Rights = 13.5 + 27 = 40.5 crore

From Bahubali 2:

The money earned through Video Games Rights = 36°

∴ Total money earned through Video Games Rights

$= \frac{36}{360}$ of 500 crore = 50 crore

And, the money earned through Music Rights = 18°

∴ Total earning through Music Rights

$= \frac{18}{360}$ of 500 crore = 25 crore

Now, the total money earned through Video Games Rights and Music Rights = 50 + 25 = 75 crore

∴ Reqd. difference = 75 – 40.5 = 34.5 crore

Hence, option B is correct.

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2. **From Bahubali 2:**

The money earned through TV Rights = 54° of 500 crore

$= \frac{54}{360} \times 500$ crore = 75 crore

The money earned through DVD Rights = 18° of 500 crore

$= \frac{18}{360} \times 500$ crore = 25 crore

The total money earned through TV Rights and DVD Rights = 75 + 25 = 100 crore

From Bahubali 1:

The money earn through TV Rights = 20% of 250 crore = 50 crore

The money earn through DVD Rights = 18% of 250 crore = 45 crore

The total money earned through TV Rights and DVD Rights = 50 + 45 = 95 crore

∴ Reqd. difference = 100 – 95 crore = 5 crore more by Bahubali 2.

Hence, option A is correct.

3.

Total Ticket sale of Bahubali 1 = $\frac{250 \times 20}{100}$ = 50 crore

Total Ticket sale of Bahubali 2 = $\frac{500 \times 108}{360}$ = 150 crore

∴ Percentage increase in the amount of Ticket Sale

⇒ $\frac{(150 - 50)}{50} \times 100 = 200\%$

The money earned through Video Game Rights by Bahubali 1 = 5% of 250 crore = 12.5 crore

The money earned through Video Game Rights by Bahubali 2 = 36° of 500

= $\frac{36}{360} \times 500 = 50$ crore

∴ Percentage increase in the amount of Video Game Rights

⇒ $\frac{(50 - 12.5)}{12.5} \times 100 = 300\%$

The required percentage variation (Δ) = 300% – 200% = 100%

Hence option D is correct.

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4.

Sponsorship in Bahubali 1 = $\frac{360 \times 15}{100}$ = 54°

Sponsorship in Bahubali 2 = 72°

∴ Percentage increase in the angle subtended by Sponsorship = $\frac{18}{54} \times 100 = 33.33\%$

Hence, option C is correct.

5. Total earning of Bahubali 2 = 500 cr

Increased collection = 150% of 500 = 750 cr

Distribution of Ticket sale and Sponsorship = (108 + 72) degrees of 500 = 50% of 500 = 250 cr

Increased distribution of Ticket sale and Sponsorship = 250 + 250 = 500 cr

Therefore, angular distribution of Ticket sale and Sponsorship

= $\frac{500}{750} \times 360 = 240°$

Therefore, angular distribution of the other categories = 360 – 240 = 120 degrees

And as earlier angular distribution of the other categories = 180 degrees

Percentage reduction in angular distribution of other categories

= $\frac{180 - 120}{180} \times 100 = 33.33\%$

Clearly, option B is the correct answer.

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