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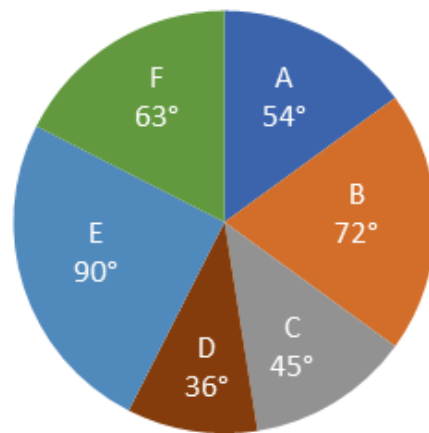
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DI Pie Chart Questions for IBPS Clerk, IBPS PO Pre, IBPS SO Pre, SBI Clerk, SBI PO Pre and RRB Scale I Pre

DI Pie Chart No 30

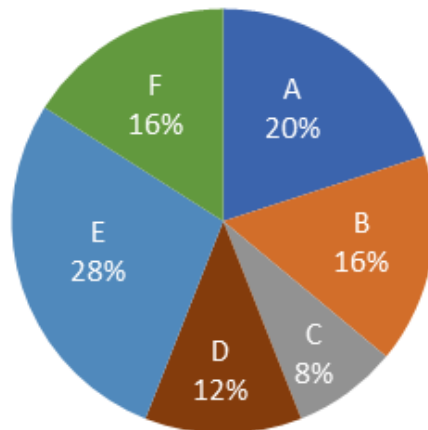
Direction: Study the following pie chart carefully and answer the questions given beside.

Given pie chart shows the part of iron ore mined by 6 different machines in a day.
Total amount of iron ore that is mined in a day by 6 machines is 200 kg.



Given pie chart shows the wasted per cent of iron ore which is mined by 6 different machines in a day while extracting Iron from them.

Total amount of wasted iron ore in a day which is mined by 6 machines together is 25 kg.



Amount of mined Iron ore = Extracted amount of Iron + Wasted amount of Iron ore.

1. What is total amount of Iron extracted from the Iron ore which is mined by the machine C and E together?

- A. 59 kg B. 25 kg C. 66 kg D. 54 kg E. None of these

2. What is the difference between the total amount of Iron extracted from Iron ore mined by machine D and total amount of Iron ore wasted by machine B and F together?

- A. 17 kg B. 10 kg C. 8 kg D. 9 kg E. None of these

3. Find that total wasted amount of Iron ore mined by machine A and C together is what per cent of total amount of Iron ore mined by machine F alone?

- A. 22% B. 28% C. 24% D. 25% E. 20%

4. Cost of Iron ore after mining is Rs.200 per kg and cost of Iron after extracting from Iron ore is Rs.250 per kg, then find the per cent profit of a person if he sold the Iron extracted from Iron ore mined by machine B instead of Iron ore mined by machine B itself.

- A. 7.5% B. 12.5% C. 18.5% D. 15% E. None of these

5. Due to rusting the amount of Iron extracted from Iron ore mined by machine E is decreased by 10% every year. Find the cost price of Iron extracted from Iron ore mined by machine E at the end of 2 years from now. Cost of Iron is Rs.200 per kg at present and remains same in future.

- A. 8600 B. 7960 C. 6966 D. 9666 E. None of these

6. What is the total amount of Iron extracted from the Iron ore mined by machines A, C and E together?

- A. 91 kg B. 96 kg C. 101 kg D. 106 kg E. 86 kg

Correct answers:

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

Explanations:

1.

Total amount of Iron ore mined by machine C

$$= 200 \times \frac{45}{360} = 25 \text{ kg}$$

Total wasted amount of Iron ore by machine C = 8% of 25 kg = 2 kg

Total amount of Iron ore mined by machine E

$$= 200 \times \frac{90}{360} = 50 \text{ kg}$$

Total wasted amount of Iron ore by machine E = 28% of 25 kg = 7 kg

Total amount of Iron extracted = (25 + 50) – (2 + 7) = 75 – 9 = 66 kg

Hence, option C is correct.

2.

Total amount of Iron extracted from Iron ore mined by machine D

$$= 200 \times \frac{36}{360} = 20 \text{ kg}$$

Wasted amount of Iron ore mined by machine D = 12% of 25 = 3 kg

Amount of Iron extracted from Iron ore mined by machine D = 20 – 3 = 17 kg

Total wasted amount of Iron ore mined by machine B and F together = 32% of 25 = 8 kg

Required difference = 17 – 8 = 9 kg

Hence, option D is correct.

3.

Total wasted amount of Iron ore mined by machine A and C together = $(20 + 8) \%$ of 25 = 7 kg

Total amount of Iron ore mined by machine F alone

$$= 200 \times \frac{63}{360} = 35 \text{ kg}$$

$$\text{Reqd \%} = \frac{7}{35} \times 100 = 20\%$$

Hence, option E is correct.

4.

Total amount of Iron ore mined by machine B

$$= 200 \times \frac{72}{360} = 40 \text{ kg}$$

Total cost of Iron ore mined by machine B = $40 \times 200 = 8000$

Total wasted amount of Iron ore mined by machine B = 16% of 25 = 4 kg

Amount of Iron extracted from Iron ore = $40 - 4 = 36 \text{ kg}$

Total cost of Iron extracted from Iron ore by machine B = $36 \times 250 = 9000$

$$\text{Profit \%} = \frac{9000 - 8000}{8000} \times 100 = 12.5\%$$

Hence, option B is correct.

5.

Total amount of Iron ore mined by machine E

$$= 200 \times \frac{90}{360} = 50 \text{ kg}$$

Total wasted amount of Iron ore mined by machine E = 28% of 25 = 7 kg

Amount of Iron extracted from Iron ore at present = $50 - 7 = 43 \text{ kg}$

Amount of Iron extracted from Iron ore at the end of 2 years from present = 90% of 90% of 43 = 34.83 kg

Total cost of Iron extracted from Iron ore mined by machine E = $34.83 \times 200 = \text{Rs.}6966$

Hence, option C is correct.

6.

Total amount of Iron ore mined by machines A, C and E together

$$= 200 \times \frac{54 + 45 + 90}{360} = 105 \text{ kg}$$

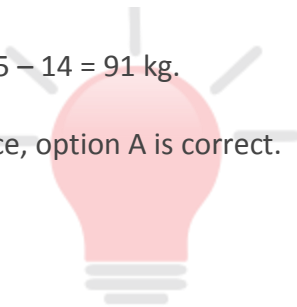
Total wasted amount of Iron ore mined by machines A, C and E together

$$= (20 + 8 + 28)\% \text{ of } 25 \text{ kg} = 14 \text{ kg}$$

Total amount of Iron extracted from the Iron ore mined by machines A, C and E together

$$= 105 - 14 = 91 \text{ kg.}$$

Hence, option A is correct.



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