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4. What is the ratio of the total number of elephants in Reserve A in 2003 and 2006 together and the total number elephants in Reserve B in 2005 and 2006 together?

- A. 17 : 18 B. 23 : 24 C. 11 : 14 D. 9 : 14 E. 11 : 12

5. The number of elephants in Reserve A decreased by 25% from 2006 to 2007 and the number of elephants in Reserve B increased by 15% from 2006 to 2007. What was the total number of elephants in Reserve A and B together in 2007?

- A. 172 B. 164 C. 158 D. 174 E. 166

Correct Answers:

1	2	3	4	5
B	C	A	E	B

Explanations:

1.

$$\begin{aligned} \text{Reqd. \%} &= \frac{52 - 32}{32} \times 100 \\ &= \frac{20}{32} \times 100 = 62.5\% \text{ increase} \end{aligned}$$

Hence, option B is correct.

2.

$$\begin{aligned} \text{Reqd. average} &= \frac{18 + 42 + 64 + 80}{4} \\ &= \frac{204}{4} = 51 \end{aligned}$$

Hence, option C is correct.

3. African elephants in Reserve A and B together in 2002,

$$= (42 + 28) \times \frac{40}{100} = \frac{70 \times 40}{100} = 28$$

African elephants in Reserve A and B together in 2004

$$= (44 + 56) \times \frac{65}{100} = \frac{100 \times 65}{100} = 65$$

\therefore Reqd. difference = $65 - 28 = 37$.

Hence, option A is correct.

4.

$$\text{Reqd. ratio} = \frac{A_{(2003 + 2006)}}{B_{(2005 + 2006)}}$$

$$= \frac{36 + 96}{64 + 80} = \frac{132}{144} = \frac{11}{12} = 11 : 12$$

Hence, option E is correct.

5.

$$\text{Elephants in Reserve A in 2007} = 96 \times \frac{75}{100} = 72$$

$$\text{Elephants in Reserve B in 2008} = 80 \times \frac{115}{100} = 92$$

Total no. of elephants in Reserve A and B in 2007 = $72 + 92 = 164$

Hence, option B is correct.





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