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Previous Year Paper

Quantitative Aptitude - 2016

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Multiple Choice Questions

1. A can do a piece of work in 8 days and B can do it in 10 days separately. How many days would it take for both A and B to finish the same work together?

- A. $\frac{33}{8}$
B. $\frac{40}{9}$
C. $\frac{41}{10}$
D. $\frac{42}{11}$

Answer

2. The lengths of the diagonal of a rhombus are 8cm and 6 cm. The area of rhombus is:

- A. 96 cm²
B. 60 cm²
C. 48 cm²
D. 24 cm²

Answer

3. Two successive discounts of 10% and 20% are equivalent to a single discount of

- A. 28%
B. 27%
C. 25%
D. 30%

Answer

4. A and B together have Rs 6,300/-. If $\frac{5}{19}$ of A's income is equal to $\frac{2}{5}$ of B's amount. The amount of B is

- A. Rs 2,500
B. Rs 3,800
C. Rs 2,300
D. Rs 4,000

Answer

5. If the selling price of 40 articles is equal to the cost price of 50 articles, the loss or gain percent is

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B. 20% gain

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D. 20% loss

Answer

6. A's income is 25% more than B's income. B's income is what percent of A's income?

A. 80%

B. 75%

C. 50%

D. 25%

Answer

7. In what time will a train, 60m long, running at the rate of 36 km/h pass a telegraph post?

A. 9 sec

B. 8 sec

C. 7 sec

D. 6 sec

Answer

8. If $5x + \frac{1}{x} = 10$, then $x^2 + \frac{1}{25x^2}$ is equal to

A. $2\frac{1}{5}$

B. $3\frac{1}{5}$

C. $3\frac{3}{5}$

D. $2\frac{3}{5}$

Answer

9. If $4r = h + \sqrt{r^2 + h^2}$ then $r : h$ is $(r \neq 0)$

A. 17 : 8

B. 8 : 17

C. 8 : 15

D. 15 : 8

Answer

10. If $\sin A + \sin^2 A = 1$ then what is the value of $\cos^2 A + \cos^4 A$?

A. 1

B. 2

C. 1/2

D. 1/4

Answer

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is:

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- A. 95°
B. 100°
C. 110°
D. 115°

Answer

$$\frac{3 \times 9^{n+1} + 9 \times 3^{2n-1}}{9 \times 3^{2n} - 6 \times 9^{n-1}}$$

12. The value of _____ is equal to

- A. $3\frac{3}{5}$
B. $3\frac{2}{5}$
C. $3\frac{1}{5}$
D. 3

Answer

13. If the average age of four children is 12 years and the average age of these children and their fathers is 20 years, what is the age of the father?
- A. 52 years
B. 48 years
C. 62 years
D. 54 years

Answer

14. If $a + b = 3$ then the value of $a^3 + b^3 + 9ab - 27$ is
- A. 24
B. 25
C. 0
D. 27

Answer

15. If $x + \frac{1}{x} = 2$, then the value of $x^7 + \frac{2}{x^6}$ is equal to
- A. 0
B. 1
C. 2
D. 3

Answer

16. In a ΔPQR , S and T are the points on PQ and PR respectively, such that $ST \parallel QR$ and $\frac{PS}{SQ} = \frac{3}{5}$, $PR = 6\text{cm}$, then PT is

- A. 2 cm

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C. 3.5 cm

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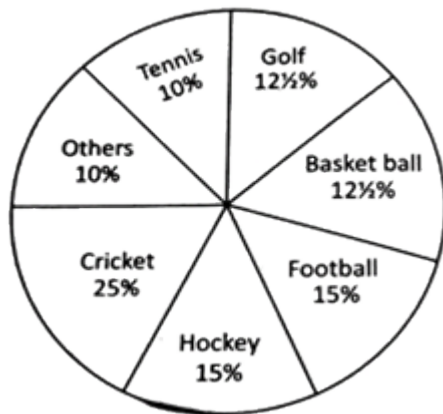
Answer

17. If $5 \sin^2 \theta + 4 \cos^2 \theta = \frac{9}{2}$ and $0 < \theta < \frac{\pi}{2}$ then $\tan \theta$ is equal to:

- A. 1
- B. 0
- C. -1
- D. 1/4

Answer

18. The pie chart drawn below shows the spendings of a country on various sports during a particular year. Study the pie-chart and answer the questions.

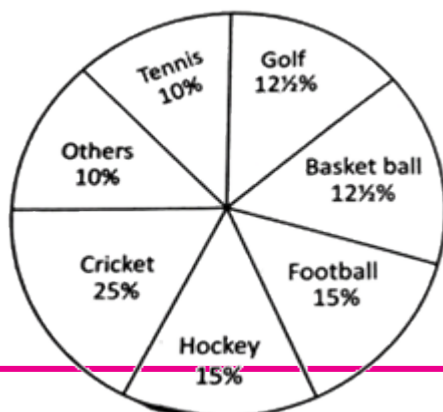


The ratio of the amount spent on football, basketball and cricket to that spent on tennis, hockey and golf is:

- A. 5 : 7
- B. 7 : 5
- C. 15 : 1
- D. 3 : 20

Answer

19. The pie chart drawn below shows the spendings of a country on various sports during a particular year. Study the pie-chart and answer the questions.



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A. Rs 9,50,000

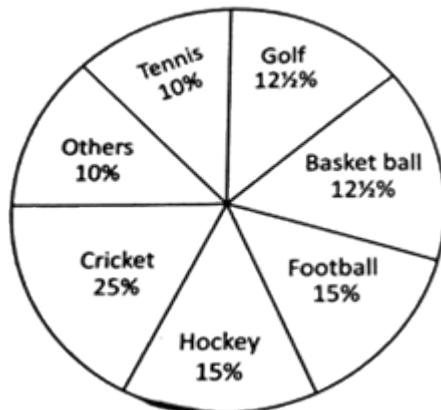
B. Rs 10,00,000

C. Rs 12,00,000

D. Rs 15,00,000

Answer

20. The pie chart drawn below shows the spendings of a country on various sports during a particular year. Study the pie-chart and answer the questions.



Total central angle showing the money spent on hockey, football and other during the yer was:

A. 104°

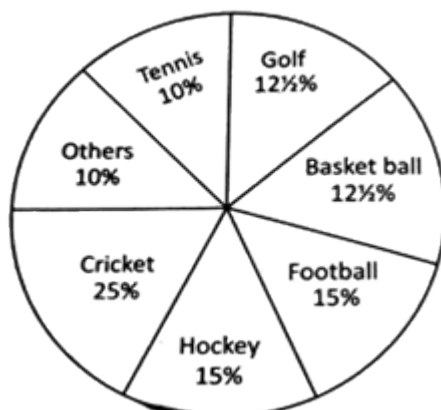
B. 244°

C. 96°

D. 144°

Answer

21. The pie chart drawn below shows the spendings of a country on various sports during a particular year. Study the pie-chart and answer the questions.



If the money spent on cricket during the year was Rs 20,00,000/-, then the money spent on tennis was

A. Rs 8,00,000

B. Rs 10,00,000

C. Rs 80,00,000

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Answer

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