Quantitative Aptitude Previous Year Question & Answers

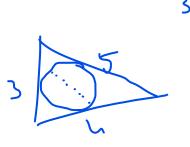
1. Let C1 and C2 be the inscribed and circumscribed circles of a triangle with sides 3cm, 4cm and 5cm then find the ratio between the areas of C1 and C2 is



b) 9 / 25



d) 16 / 25



1² - time 2.5² - 1-5

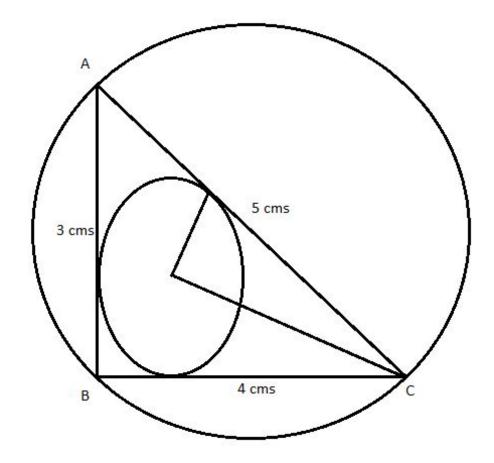
Ans. c.

Explanation: Since, sides are 3, 4, and 5 cms. Therefore, triangle will be a right-angled triangle.

The radius of the inscribed circle C1 = (3 + 4 - 5)/2 = 1 cms.

The radius of the circumscribed circle C2=5/2=2.5 cms. (because in this case, the hypotenuse will be the diameter of the circumscribed circle.

Area C1/ Area C2 = $pi*(1)^2/pi*(2.5)^2 = 100/625 = 4/25$;



2. If $x = 1/(\sqrt{2} + 1)$; then (x + 1) equals to ?

a)
$$2 \times -\frac{\sqrt{2}-1}{2-1} - \sqrt{2}-1$$

c)
$$\sqrt{2+1}$$

d)
$$\sqrt{2}$$

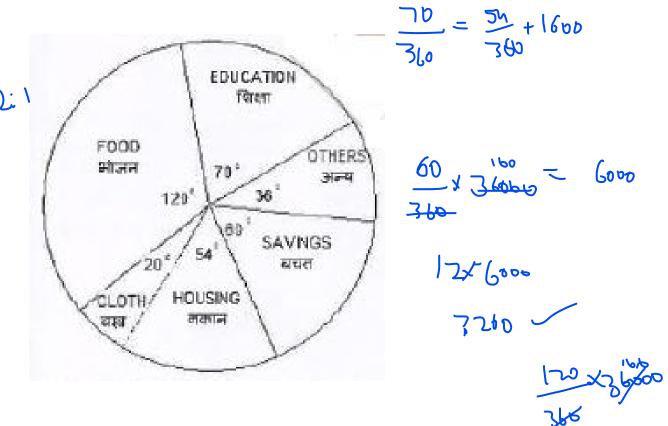
Ans. d.

Explanation:

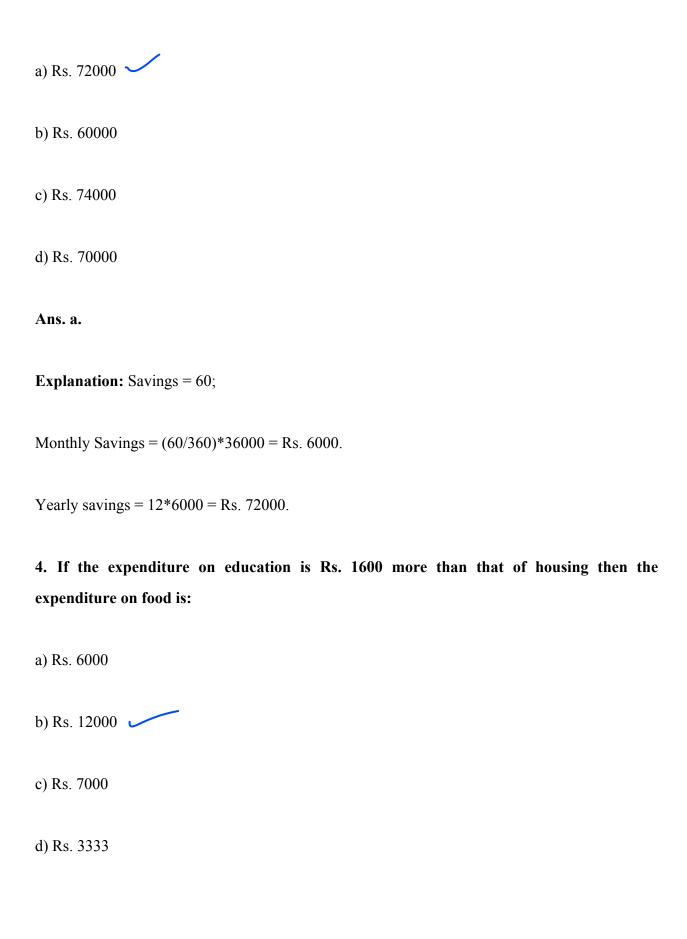
$$x = \frac{1}{\sqrt{2} + 1}; \Rightarrow x = \frac{\sqrt{2} - 1}{(\sqrt{2} + 1)(\sqrt{2} - 1)} = \sqrt{2} - 1$$
$$x + 1 = \sqrt{2} - 1 + 1 = \sqrt{2};$$

NO

Directions/ In Question nos. / 3 to 5, The pie-chart given here shows expenditure incurred by a family on various items and their savings. Study the chart and answer the questions based on the pie-chart.



3. If the monthly income is Rs. 36000 then the yearly savings is:



Ans. b.

Explanation: Expenditure on education= 70

Expenditure on housing = 54

Difference between expenditure on education and housing = 70 - 54 = 16;

 $\frac{120}{60} = 2:1$

Monthly expenditure on education= (16/360)* Monthly income;

Monthly income = (1600 *360)/16 = Rs. 36000

Hence, the expenditure of food = (120*36000)/360 = 12000;

5. The ratio of expenditure on food to savings is:

- a) 2:1
- b) 3:1
- c) 3:2
- d) 10:9

Ans. a.

6. The average marks obtained by a student in 6 subjects is 88. On subsequent verification it was found that the marks obtained by him in a subject was wrongly copied as 86 instead of 68. The correct average of the marks obtained by him is-







b) 87

c) 84

,

5

d) 86

Ans. a.

8 5178

Explanation: Suppose, these 6 subjects are S1, S2, S3,...., S6;

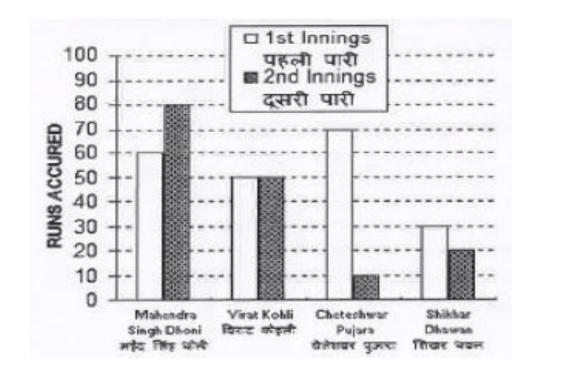
$$S1 + S2 + S3 + \dots + S6 = 88*6 = 528;$$

The actual sum of marks in all subjects = 528 - 86 + 68 = 510;

Hence, the correct average marks = 510/6 = 85;

Directions / In Question nos. / 7 to 10, Given here a multiple bar diagram of the scores of four players in two innings. Study the diagram and answer the questions.

https://www.freshersnow.com/previous-year-question-papers/



7. The average run of two Innings of the player who scored highest in average is:

- a) 75
- b) 85
- c) 80
- d) 70 🗸

Ans. d.

Explanation: From the figure, it can be seen lucidly that Mahendra Singh Dhoni has scored the maximum runs. Hence,

The average runs scored by MS Dhoni = (60 + 80)/2 = 70.

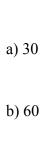
- 8. The average run in two innings of the player who has scored minimum at the second innings is:
- a) 50
- b) 60
- c) 40 /
- d) 30

Ans. c.

Explanation: Cheteshwar Pujara scored the lowest marks in the second innings.

Hence, the average runs scored by him = (70 + 10)/2 = 40.

9. The average score in second innings contributed by the four players is:







Ans. c.

Explanation: Average run scored by all four player in second inning = (80 + 50 + 10 + 20)/4 = 40

1. The total scores in the first innings contributed by the four players is:

a) 220

b) 200



d) 190

Ans. c.

Explanation: The total scores in the first innings by all four players = (60 + 50 + 70 + 30) = 210;