Quantitative Aptitude Previous Year Question & Answers

1. I	et C1	and	C ₂ b	e the	inscribed	and	circumscribed	circles	of a	triangle	with	sides	3cm,
4cn	and 5	sem t	hen fi	nd th	e ratio bet	tweei	n the areas of C	1 and (C2 is				



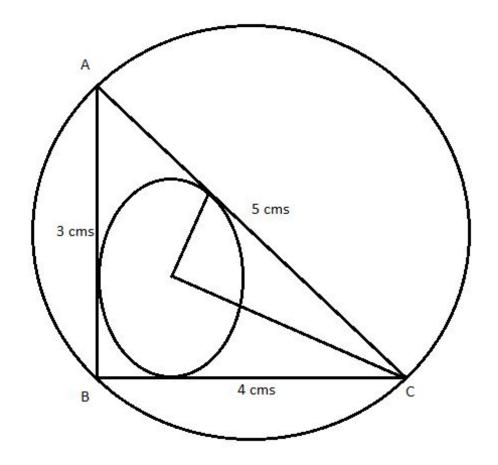
Ans. c.

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 ?

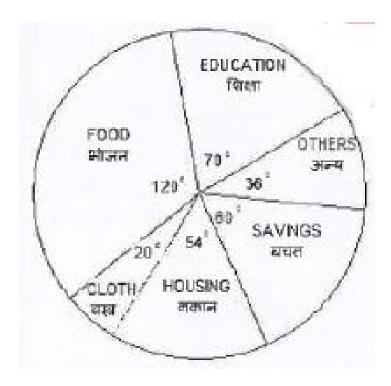
- a) 2
- b) √2-1
- c) $\sqrt{2+1}$
- d) √2

Ans. d.

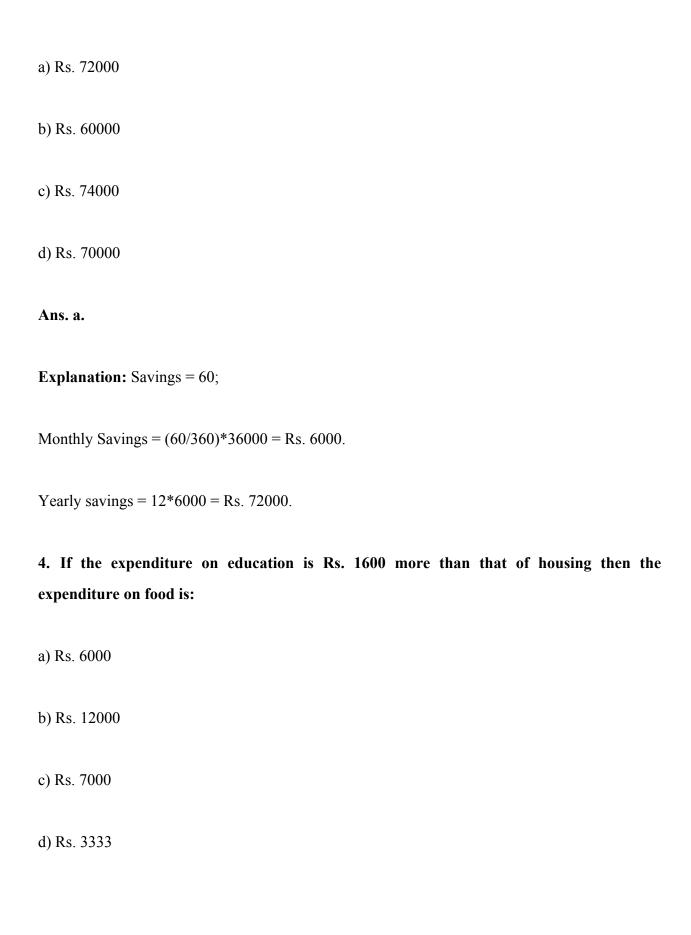
Explanation:

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

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;

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.

Explanation: The required ratio = 120/60 = 2:1;

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-

- a) 85
- b) 87
- c) 84
- d) 86

Ans. a.

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

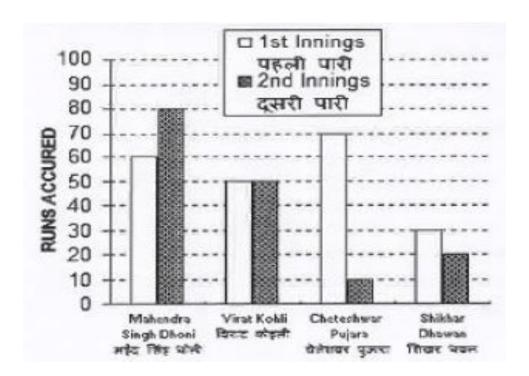
$$S1 + S2 + S3 + \dots + S6 = 88*6 = 528;$$

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.

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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:

