# **Quantitative Aptitude Previous Year Question & Answers**

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



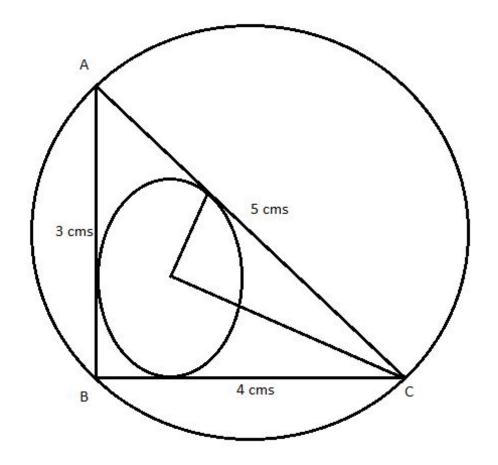
#### Ans. c.

**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 ?

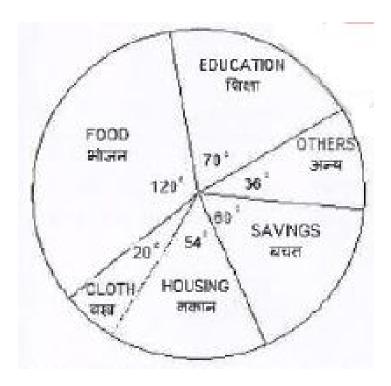
- a) 2
- b) √2-1
- c)  $\sqrt{2+1}$
- d) √2

#### Ans. d.

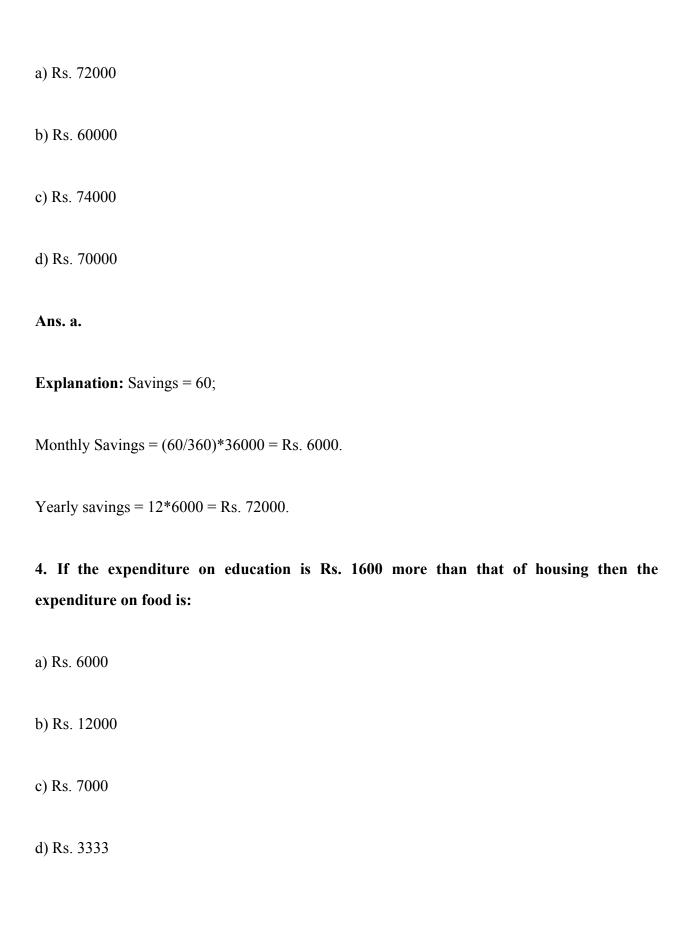
## **Explanation:**

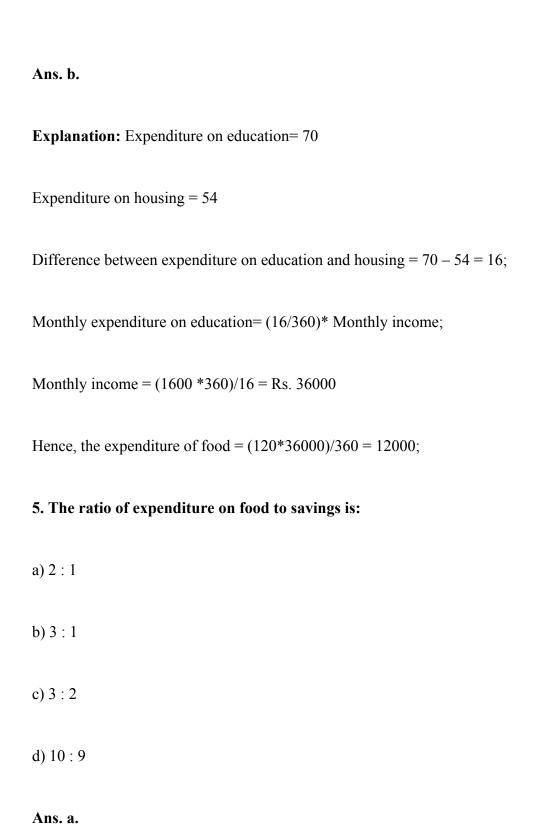
$$x = \frac{1}{\sqrt{2} + 1}; => x = \frac{\sqrt{2} - 1}{(\sqrt{2} + 1)(\sqrt{2} - 1)} = \sqrt{2} - 1$$
$$x + 1 = \sqrt{2} - 1 + 1 = \sqrt{2};$$

**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:





**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.

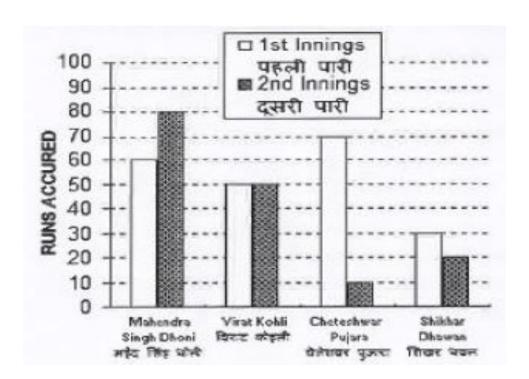
**Explanation:** Suppose, these 6 subjects are S1, S2, S3,....., S6;

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

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. 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.						
<b>Explanation:</b> 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.						
<b>Explanation:</b> 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:						

