SSC CGL (Tier - 1) Online Exam Paper - 2016 "held on 3 September 2016" Evening Shift (Quantitative Aptitude)

EXAM DATE : 3-September-2016
EXAM START TIME : 16:15:00
EXAM NAME : SSC Examination 2016

Question 51. The sum of two positive integers is 80 & difference between them is 20. Then what is difference of squares of those numbers ?

Options:

1) 1400
2) 1600
3) 1800
4) 2000

Correct Answer: 1600

Question 52. The difference between the selling prices of an article sold at 4% and 3% profits is 3. The cost price of the article is :

Options:

1) 400
2) 350
3) 300
4) 100

Correct Answer: 300

Question 53. In a school there are 1500 students, 44% of them are girls. Monthly fee of each boy is 540 and fee of each girl is 25% less than that of a boy. The sum of fees of boys & girl is

Options:

1) 720600
2) 720800
3) 720900
4) 721000

Correct Answer: 720900

Question 54.The time for a train of length 110 metres running at the speed of 72 km/hr to cross a bridge of length 132 metres is

Options:

1) 9.8 sec
2) 12.1 sec
3) 12.42 sec
4) 14.3 sec

Correct Answer: 12.1 sec

Question 55.

Simplify the equation

$$\frac{(0.73)^3 + (0.27)^3}{(0.73)^2 + (0.27)^2 - (0.73)x(0.27)}$$

Options:

1) 1
2) 0.4087
3) 0.73
4) 0.27

Correct Answer: 1

Question 56.

If $x + \frac{1}{x} = -2$,then the value of $x^7 + \frac{1}{x^7}$ is

Options:

1) 1
2) -1
3) 0
4) -2

Correct Answer: -2

Question 57.In a circle, two arcs of unequal length subtend angles in the ratio 5:3. If the smaller angle is 45° then the measure of other angle in degrees.

Options:

1) 75°
2) 72°
3) 60°
4) 78°

Correct Answer: 75°

Question 58.The orthocentre of an obtuse-angled triangle lies

Options:

1) inside the triangle
2) outside the triangle
3) on one side of a triangle
4) none of these

Correct Answer: outside the triangle

Question 59.If a.sin 45°.cos 45°.tan60° = tan245° - cos60° then find the value of a ?

Options:

1)
$$\frac{1}{\sqrt{3}}$$
2)
$$\sqrt{3}$$
3) 1
4)
$$\frac{\sqrt{3}}{2}$$

Correct Answer:
$$\frac{1}{\sqrt{3}}$$

Question 60.Ganesh, Ram and Sohan together can complete a work in 16 days. If Ganesh and Ram together can complete the same work in 24 days. The number of days Sohan alone takes, to finish the work is

Options:

1) 40
2) 48
3) 32
4) 30

Correct Answer: 48

Question 61. The radius of base of a right circular cone is 6cm and its slant height is 10cm. Then its volume is

(use Π = 22/7)

Options:

1) 301.71 cm3
2) 310.71 cm3
3) 301.17 cm3
4) 310.17 cm3

Correct Answer: 301.71 cm3

Question 62.A shop keeper allows 20% discount on the marked price on his articles. Find the marked price of an article for which he charges 740

Options:

1) 725
2) 875
3) 925
4) 1040

Correct Answer: 925

Question 63.A truck covers a distance of 550 metres in one minute where as a bus covers a distance of 33 km in 3/4 hours. Then the ratio of their speeds is

Options:

1) 1:3
2) 2:3
3) 3:4
4) 1:4

Correct Answer: 3:4

Question 64. Seven years ago, the average age of A, B and C was 51 years. If A is 3 years older than B and B is 3 years older then C then the present ages of A, B and C are (in year)

Options:

1) 61, 58 and 55

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2) 54, 51, and 48
3) 55, 58, and 61
4) 48, 51 and 54

Correct Answer: 61, 58 and 55

Question 65.If a2 + b2 + c2 = 14 and a + b + c = 6, then the value of (ab + bc + ca) is,

Options:

1) 11
2) 12
3) 13
4) 14

Correct Answer: 11

Question 66.

If $\frac{a}{b} + \frac{b}{a} = 1$, then the value of $a^3 + b^3$ is

Options:

1) 1
2) 0
3) -1
4) 2

Correct Answer: 0

Question 67.If O is the centre of a circle of radius 5 cm. At a distance of 13 cm from O, a point P is taken. From this point, two tangents PQ and PR are drawn to the circle. Then , the area of quadrilateral PQOR is

Options:

1) 60 cm2
2) 32.5 cm2
3) 65 cm2
4) 30 cm2

Correct Answer: 60 cm2

Question 68. A, B and C are three points on a circle with centre O. The tangent at C meets BA produced at T. If ∠ATC = 30° and ∠ACT = 48°,then what is the value of ∠AOB ?

Options:

1) 78°

2) 96°
3) 102°
4) 108°

Correct Answer: 108°

Question 69.If 3sinθ+ 4cosθ = 5 (0< θ <900) then the value of sinθ is

Options:

1)
$$\frac{1}{5}$$
2)
$$\frac{2}{5}$$
3)
$$\frac{3}{5}$$
4)
$$\frac{4}{5}$$

Correct Answer:
$$\frac{3}{5}$$

Question 70.Two men standing on same side of a pillar 75 metre high, observe the angles of elevation of the top of the pillar to be 30° and 60° respectively the distance between two men is

Options:

1)
$100 \sqrt{3}m$

2) 100
3)
$$\frac{75}{\sqrt{3}} m$$

4)
$25\sqrt{3} m$

Correct Answer:
$100 \sqrt{3}m$

Question 71.The difference between compound interest and simple interest on Rs. 5000 for 2 years at 8% per annum payable yearly is

Options:

1) Rs.30
2) Rs.31
3) Rs.33
4) Rs.32

Correct Answer: Rs.32

Question 72.The given pie chart have shows the spendings of a country on various sports during a year. Study the graph and answer the following questions.
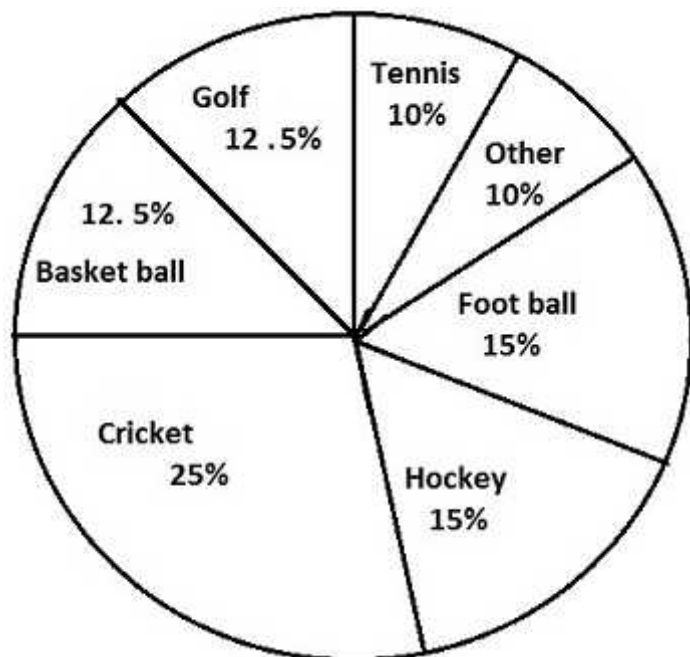
If the total amount spent on sports during the year was   15,000,000, the amount spent on cricket and hockey together was
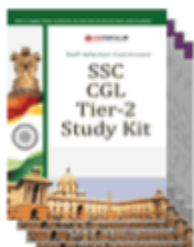
Options:

1) 6000000
2) 5000000
3) 3750000
4) 7500000

Correct Answer: 6000000

Question 73.The given pie chart have shows the spendings of a country on various sports during a year. Study the graph and answer the following questions.

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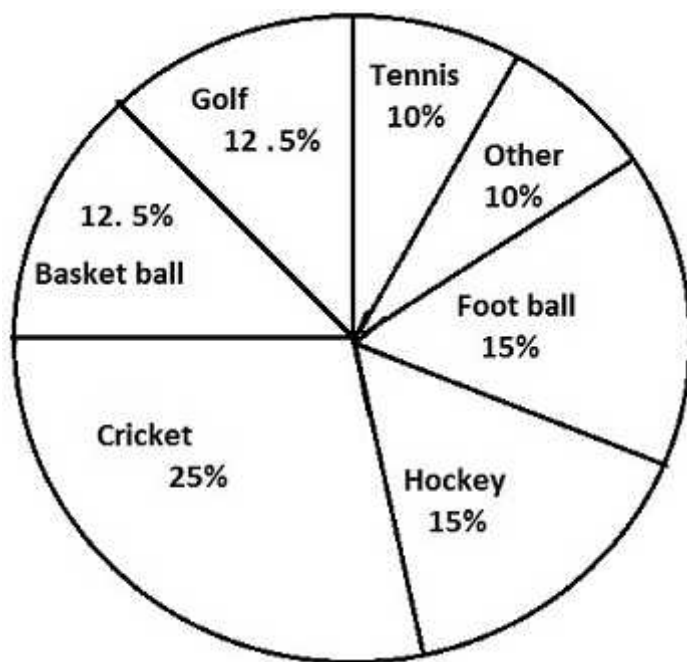
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If the total amount spent on sports during the year was   12,000,000 , how much was spent on basket ball ?

Options:

1) 1250000
2) 1000000
3) 1200000
4) 1500000

Correct Answer: 1500000

Question 74.The given pie chart have shows the spendings of a country on various sports during a year. Study the graph and answer the following questions.
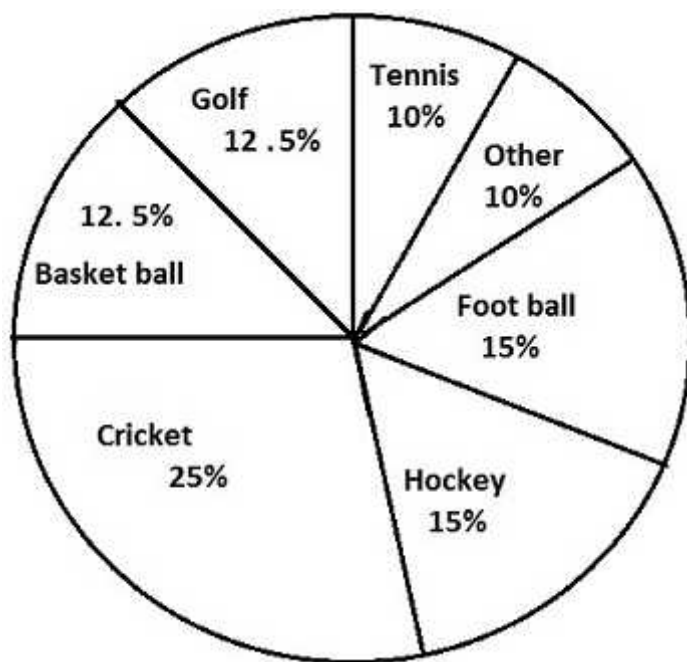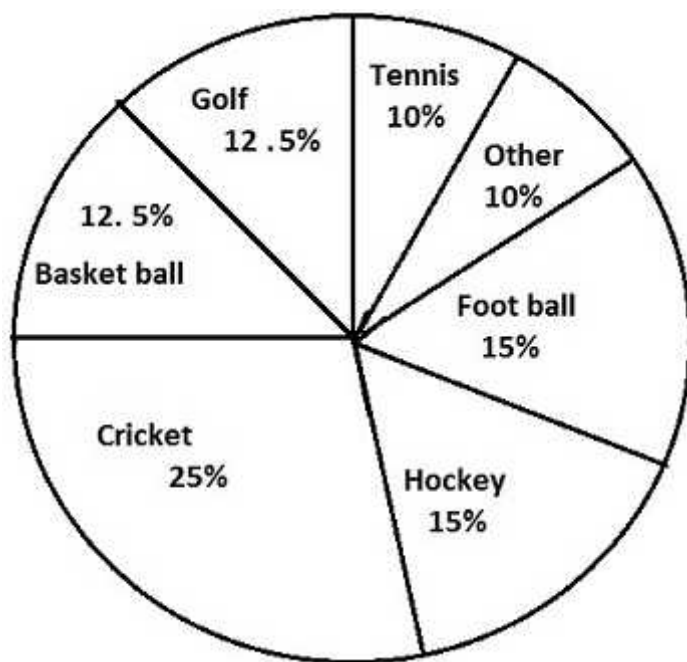
The ratio of the total amount spent on football to that spent on hockey was

Options:

1) 1:15
2) 1:1
3) 15:1
4) 3:2

Correct Answer: 1:1

Question 75.The given pie chart have shows the spendings of a country on various sports during a year. Study the graph and answer the following questions.

What is the central angle for the tennis .

Options:

1) 36°
2) 63°
3) 33°
4) 66°

Correct Answer: 36°

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