

SSC CGL 2017 EXAM PAPER : Held on 16-AUG-2017 Shift-1
(Mathematics)

QID : 51 - Product of three consecutive odd numbers is 1287. What is the largest of the three numbers?

Options:

- 1) 9
- 2) 11
- 3) 13
- 4) 17

Correct Answer: 13

QID : 52 - 45 men or 60 boys can do a piece of work in 20 days. How many days will 15 men and 20 boys take to complete the work?

Options:

- 1) 23
- 2) 45
- 3) 30
- 4) 25

Correct Answer: 30

QID : 53 - How many spherical balls of radius 1 cm can be made by melting a hemisphere of radius 6 cm?

Options:

- 1) 112
- 2) 108
- 3) 116
- 4) 104

Correct Answer: 108

QID : 54 - The marked price of a shirt is Rs 1280. If the shirt is being sold for Rs 900, then what is the discount percentage?

Options:

- 1) 31.31
- 2) 25.57
- 3) 29.68
- 4) 34.36

Correct Answer: 29.68

QID : 55 - The ratio of number of cans of orange, pineapple and mixed fruit juices kept in a store is 8 : 9 : 15. If the store sells 25%, 33.33% and 20% of orange, pineapple and mixed fruit juices cans respectively, then what is the ratio of number of cans of these juices in the remaining stock?

Options:

- 1) 1 : 1 : 2
- 2) 6 : 6 : 13
- 3) 12 : 15 : 19
- 4) 4 : 9 : 13

Correct Answer: 1 : 1 : 2

QID : 56 - The ratio of number of boys and girls in a class is 2 : 3. The average weight of boys and girls in the class is 18 kg and 21 kg respectively. What is the average weight (in kgs) of all the boys and girls together

Options:

- 1) $99/5$
- 2) $101/5$
- 3) $109/6$
- 4) $96/5$

Correct Answer: $99/5$

QID : 57 - A milk merchant buys 50 litres of milk at the rate of Rs 40 per litre and mixes 5 litres of water in it. If he sells this mixture at the rate of Rs 42 per litre, then what is the profit percentage for the dealer?

Options:

- 1) 17.2
- 2) 14.4
- 3) 16.6
- 4) 15.5

Correct Answer: 15.5

QID : 58 - If A is 6 times more than B, then by what percentage is B is less than A?

Options:

- 1) 64.82
- 2) 83.33
- 3) 28.56
- 4) 85.71

Correct Answer: 85.71

QID : 59 - A runner starts running from a point at 6:00 am with a speed of 8 km/hr. Another racer starts from the same point at 8:30 am in the same direction with a speed of 10 km/hr. At what time of the day (in p.m.) will the second racer will overtake the other runner?

Options:

- 1) 8:00
- 2) 4:00
- 3) 6:30
- 4) 5:30

Correct Answer: 6:30

QID : 60 - A sum amounts to Rs 7727.104 at the rate of 12% per annum compounded annually after three years. What is the value of principal (in Rs)?

Options:

- 1) 5000
- 2) 5200
- 3) 5350
- 4) 5500

Correct Answer: 5500

QID : 61 - When $[x + (1/x)] = 5$, then what is the value of $[x - (1/x)]$?

Options:

- 1) 11
- 2) ± 22
- 3) 21

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4) ± 21

Correct Answer: ± 21

QID : 62 - If $x = (2 + 1)/(2 - 1)$, then what is the value of $(x^5 + x^4 + x^2 + x)/x^3$?

Options:

- 1) 40
- 2) 37.5
- 3) 38
- 4) $20\sqrt{2}$

Correct Answer: 40

QID : 63 - If $x = 5 - 2\sqrt{6}$, then what is the value of $x + (1/x)$?

Options:

- 1) 5
- 2) 2
- 3) $2\sqrt{3}$
- 4) $2\sqrt{2}$

Correct Answer: $2\sqrt{3}$

QID : 64 - If $27x + 27[x - (1/3)] = 972$, then what is the value of x ?

Options:

- 1) 2
- 2) 3
- 3) 4
- 4) 5

Correct Answer: 2

QID : 65 - The inradius of a equilateral triangle is 10 cm. What is the circum-radius (in cm) of the same triangle?

Options:

- 1) 5
- 2) $10\sqrt{3}$
- 3) 20
- 4) $20\sqrt{3}$

Correct Answer: 20

QID : 66 - The point of intersection of all the angle bisector of a triangle is _____ of the triangle.

Options:

- 1) Incenter
- 2) Circumcenter
- 3) Centroid
- 4) Orthocenter

Correct Answer: Incenter

QID : 67 - ABC is an equilateral triangle and P is the orthocenter of the triangle, then what is the value (in degrees) of $\angle BPC$?

Options:

- 1) 90
- 2) 120
- 3) 135
- 4) 145

Correct Answer: 120

QID : 68 - In a triangle ABC, AD is angle bisector of $\angle A$ and $AB : AC = 3 : 4$. If the area of triangle ABC is 350 cm^2 , then what is the area (in cm^2) of triangle ABD?

Options:

- 1) 150
- 2) 200
- 3) 210
- 4) 240

Correct Answer: 150

QID : 69 - A boat is sailing towards a lighthouse of height $20\sqrt{3}$ m at a certain speed. The angle of elevation of the top of the lighthouse changes from 30° to 60° in 10 seconds. What is the time taken (in seconds) by the boat to reach the lighthouse from its initial position?

Options:

- 1) 10
- 2) 15
- 3) 20
- 4) 60

Correct Answer: 15

QID : 70 - What is the value of $[\sec \theta / (\sec \theta - 1)] + [\sec \theta / (\sec \theta + 1)]$?

Options:

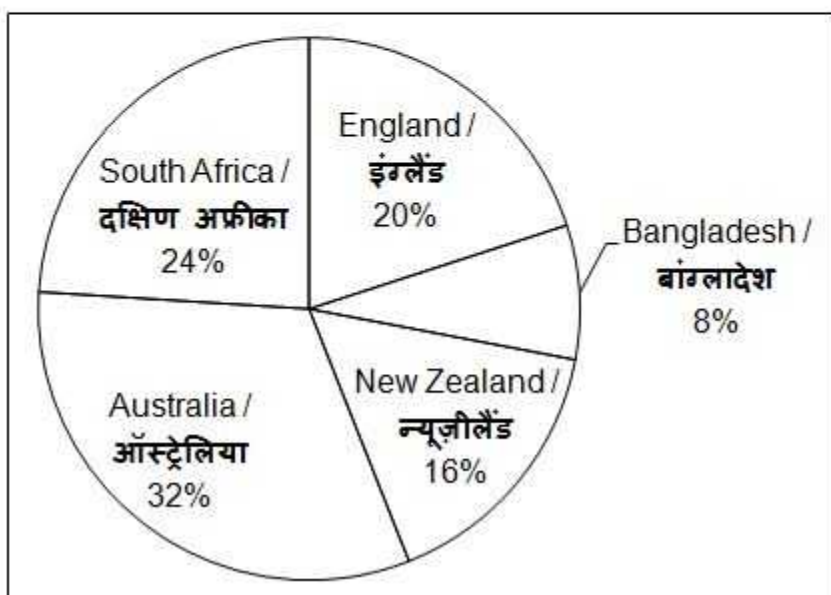
- 1) $2 \sin^2$
- 2) $2(1 + \tan^2)$
- 3) $2 \operatorname{cosec}^2$
- 4) \sin^2

Correct Answer: $2 \operatorname{cosec}^2$

QID : 71 -

The pie chart given below shows the runs scored by Pujara against team of different countries.

नीचे दिए गए वृत्त चित्र में पुजारा के द्वारा विभिन्न देशों की क्रिकेट टीमों के विरुद्ध बनाए गए रनों को दर्शाया गया है।



Options:

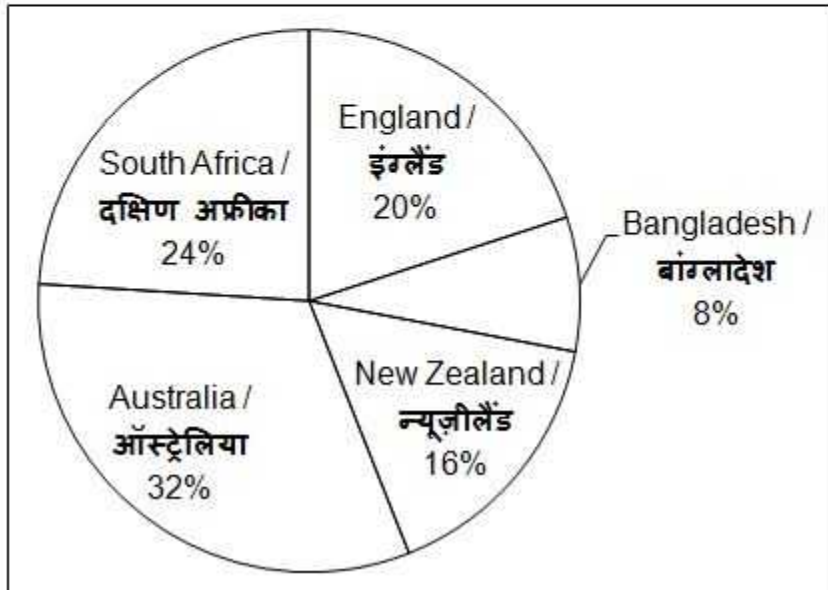
- 1) $3x$
- 2) x
- 3) $4x$
- 4) $2x$ or $1/(2x)$

Correct Answer: $2x$ or $1/(2x)$

QID : 72 -

The pie chart given below shows the runs scored by Pujara against team of different countries.

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The runs scored by Pujara against South Africa is more than runs scored against Bangladesh by what percentage?

Options:

- 1) 100
- 2) 150
- 3) 200
- 4) 250

Correct Answer: 200

QID : 73 -

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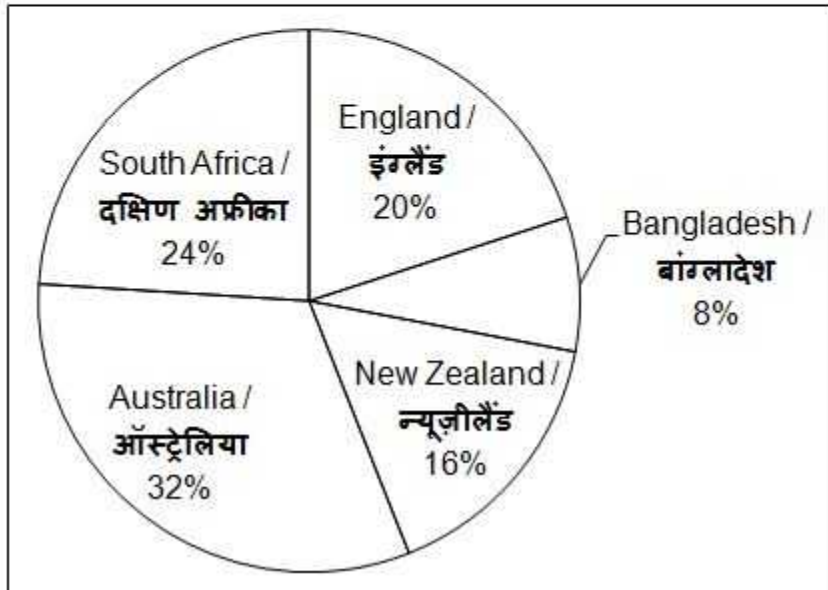
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The pie chart given below shows the runs scored by Pujara against team of different countries.

नीचे दिए गए वृत्त चित्र में पुजारा के द्वारा विभिन्न देशों की क्रिकेट टीमों के विरुद्ध बनाए गए रनों को दर्शाया गया है।



If Pujara has scored 1875 runs in total, then what is the difference in runs scored by Pujara against South Africa and New Zealand?

Options:

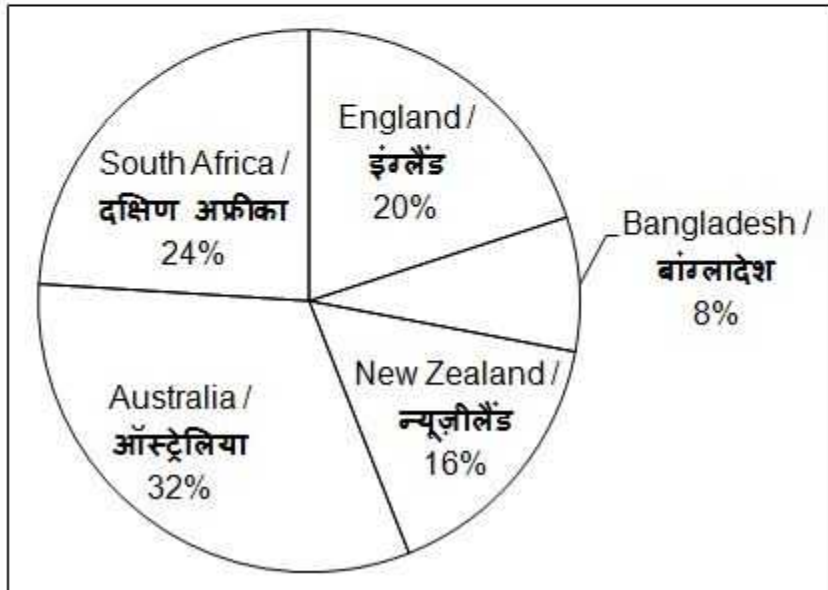
- 1) 150
- 2) 175
- 3) 200
- 4) 250

Correct Answer: 150

QID : 74 -

The pie chart given below shows the runs scored by Pujara against team of different countries.

नीचे दिए गए वृत्त चित्र में पुजारा के द्वारा विभिन्न देशों की क्रिकेट टीमों के विरुद्ध बनाए गए रनों को दर्शाया गया है।



What is the sectorial angle (in degrees) made by the runs scored against Australia in the given pie chart?

Options:

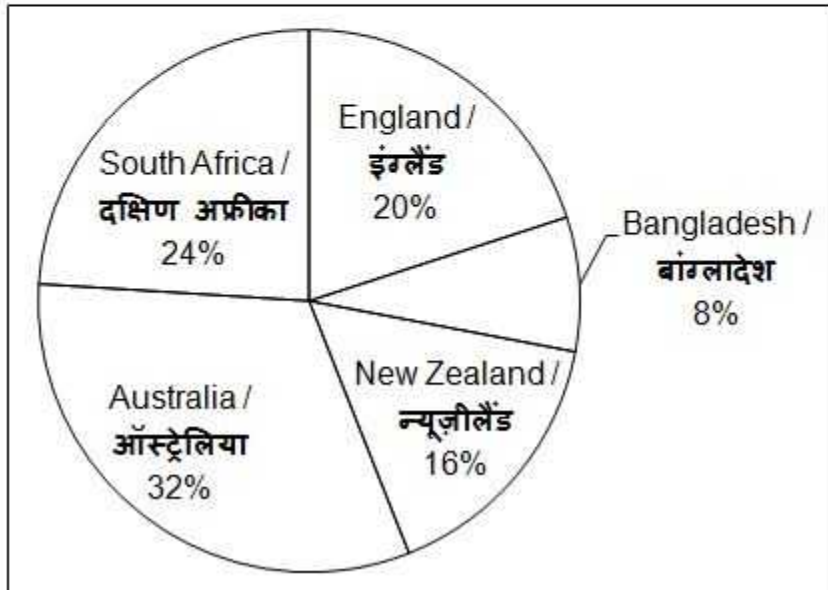
- 1) 106.8
- 2) 109.6
- 3) 112.4
- 4) 115.2

Correct Answer: 115.2

QID : 75 -

The pie chart given below shows the runs scored by Pujara against team of different countries.

नीचे दिए गए वृत्त चित्र में पुजारा के द्वारा विभिन्न देशों की क्रिकेट टीमों के विरुद्ध बनाए गए रनों को दर्शाया गया है।



What should be the least number of runs that Pujara must have scored in total (runs can only be integers)?

Options:

- 1) 25
- 2) 225
- 3) 375
- 4) 625

Correct Answer: 25



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