

## SSC CPO Exam Paper - 2017 "held on 04 July 2017" Shift-1

### (Quantitative Aptitude)

**QID : 101** -  $4^{11} + 4^{12} + 4^{13} + 4^{14}$  is divisible by \_\_\_\_.

**Options:**

- 1) 7
- 2) 14
- 3) 17
- 4) 9

**Correct Answer:** 17

**QID : 102 -**

What is the value of  $\frac{(1.1)^3 + (0.7)^3}{(1.1)^2 - 1.1 \times 0.7 + (0.7)^2}$  ?

$\frac{(1.1)^3 + (0.7)^3}{(1.1)^2 - 1.1 \times 0.7 + (0.7)^2}$  का मान क्या है?

**Options:**

- 1) 0.4
- 2) 0.7

3) 1.1

4) 1.8

**Correct Answer:** 1.8

**QID : 103** - For what value of N, 270N will be a perfect square, where 270N is a 4 digit number??

**Options:**

1) 1

2) 6

3) 4

4) 9

**Correct Answer:** 4

**QID : 104** - What least value should be added to 2505, so that it becomes a perfect square?

**Options:**

1) 5

2) 20

3) 70

4) 96

**Correct Answer:** 96

**QID : 105** -

What is the value of

$$999\frac{1}{2} + 999\frac{1}{6} + 999\frac{1}{12} + 999\frac{1}{20} + 999\frac{1}{30} ?$$

$$999\frac{1}{2} + 999\frac{1}{6} + 999\frac{1}{12} + 999\frac{1}{20} + 999\frac{1}{30} \text{ का मान}$$

क्या होगा?

**Options:**

1)

$$999\frac{1}{6}$$

2)

$$999\frac{5}{6}$$

3)

$$4995\frac{1}{6}$$

4)

$$4995\frac{5}{6}$$

**Correct Answer:**

$$4995\frac{5}{6}$$

**QID : 106** - A, B and C together can complete a work in 20 days. A and B together can complete the same work in 30 days. Then C alone can complete the same work in how many days?

**Options:**

1) 10

2) 30

3) 45

4) 60

**Correct Answer:** 60

**QID : 107** - Vijay is 10% more efficient than Vikas. If Vikas can complete a piece of work in 33 days, then Vijay can complete the same work in how many days?

**Options:**

1) 25

2) 27

3) 30

4) 36

**Correct Answer:** 30

**QID : 108** - After giving 20% discount on an article there is a profit of 20%. What will be the profit percentage when no discount is given?

**Options:**

1) 40

2) 44

3) 54

4) 50

**Correct Answer:** 50

**QID : 109** - The marked price of a cycle is Rs 5600. If two successive discounts of 10% and 15% are given, then what will be the selling price (in Rs) of the cycle?

**Options:**

- 1) 4284
- 2) 4200
- 3) 4214
- 4) 4314

**Correct Answer:** 4284

**QID : 110** - If  $2A = 3B = 5C$ , then what is  $A : B : C$ ?

**Options:**

- 1) 2 : 3 : 5
- 2) 5 : 3 : 2
- 3) 6 : 10 : 15
- 4) 15 : 10 : 6

**Correct Answer:** 15 : 10 : 6

**QID : 111** - In what ratio wheat at Rs 32/kg should be mixed with wheat at Rs 24/kg so that on selling the mixture at Rs 39/kg there is a profit of 30%?

**Options:**

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

**Correct Answer:** 3 : 1

**QID : 112** - The average runs scored by a batsman in 7 matches is 53 and in other 9 matches the average is 33. What is the average runs scored by the batsman in 16 matches?

**Options:**

- 1) 41.75
- 2) 44.25
- 3) 47
- 4) 49.175

**Correct Answer:** 41.75

**QID : 113** - The average marks obtained by 150 students in an examination is 40. If the average marks of passed students is 60 and that of the failed students is 20, then what is the number of students who passed the examination?

**Options:**

- 1) 25
- 2) 50
- 3) 75
- 4) 100

**Correct Answer:** 75

**QID : 114** - A trader sold an article at a gain of 20%. Had he purchased it for 40% more and sold for Rs 24 less, then he would have incurred a loss of 20%. What is the cost price (in Rs) of the article?

**Options:**

- 1) 150
- 2) 300
- 3) 450
- 4) 600

**Correct Answer:** 300

**QID : 115** - The cost price of a chair is 25% less than the cost price of a table. If a man sells 5 chairs at the cost price of 7 tables, then what is his profit percentage?

**Options:**

- 1) 33.33
- 2) 45
- 3) 86.66
- 4) 96

**Correct Answer:** 86.66

**QID : 116** - If the radius of a circle is decreased by 10%, then what will be the percentage decrease in the area of circle?

**Options:**

- 1) 19
- 2) 20
- 3) 21
- 4) 23

**Correct Answer:** 19

**QID : 117** - If A is 50% more than B. B is how much percent less than A?

**Options:**

- 1) 50
- 2) 100
- 3) 66.66
- 4) 33.33

**Correct Answer:** 33.33

**QID : 118** - A car travels 20% slower than a train. Both starts from point A at the same time and reach point B 240 km away at the same time. On the way the train takes 48 minutes for stopping at the stations. What is the speed (in km/hr) of the car?

**Options:**

- 1) 80
- 2) 100
- 3) 120
- 4) 60

**Correct Answer:** 60

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**QID : 119** - A scooter runs at a speed of 49 km/hr after repairing and runs at 42 km/hr before repairing. It covers a certain distance in 7 hours after repairing. How much time will it take to cover twice of the distance before repairing?

**Options:**

- 1) 8 hours 10 mins
- 2) 12 hours 20 mins
- 3) 16 hours 20 mins
- 4) 18 hours 30 mins

**Correct Answer:** 16 hours 20 mins

**QID : 120** - What is the difference (in Rs) between compound interest and simple interest for 3 years on a principal of Rs 1000 at the rate of 20% per annum?

**Options:**

- 1) 64
- 2) 120
- 3) 128
- 4) 136

**Correct Answer:** 128

**QID : 121** - What will be the amount on Rs 25000 at the rate of 20% per annum compounded yearly for 4 years?

**Options:**

- 1) 51840
- 2) 50350
- 3) 53550
- 4) 48750

**Correct Answer:** 51840]

**QID : 122** -

The table given below shows the production (in '000 tonnes) of five companies from 2012 to 2016.

नीचे दी गई तालिका में वर्ष 2012 से वर्ष 2016 तक पाँच कंपनियों के उत्पादन ('000 टन में) को दर्शाया गया है।

	Year / वर्ष				
Company कंपनी	2012	2013	2014	2015	2016
<i>P</i>	302	386	412	503	470
<i>Q</i>	376	402	444	529	501
<i>R</i>	250	268	302	298	276
<i>S</i>	350	360	372	398	362
<i>T</i>	403	450	504	597	602

What is the total production (in '000 tonnes) of company R from year 2012 to 2016?

**Options:**

- 1) 1276
- 2) 1444
- 3) 1394
- 4) 1502

**Correct Answer:** 1394

**QID : 123 -**



The table given below shows the production (in '000 tonnes) of five companies from 2012 to 2016.

नीचे दी गई तालिका में वर्ष 2012 से वर्ष 2016 तक पाँच कंपनियों के उत्पादन ('000 टन में) को दर्शाया गया है।

	Year / वर्ष				
Company कंपनी	2012	2013	2014	2015	2016
<i>P</i>	302	386	412	503	470
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<i>R</i>	250	268	302	298	276
<i>S</i>	350	360	372	398	362
<i>T</i>	403	450	504	597	602

What is the average (in '000 tonnes) of total production all companies in year 2013?

**Options:**

- 1) 371.1
- 2) 373.2
- 3) 378.4
- 4) 362.3

**Correct Answer:** 373.2

**QID : 124 -**

The table given below shows the production (in '000 tonnes) of five companies from 2012 to 2016.

नीचे दी गई तालिका में वर्ष 2012 से वर्ष 2016 तक पाँच कंपनियों के उत्पादन ('000 टन में) को दर्शाया गया है।

	Year / वर्ष				
Company कंपनी	2012	2013	2014	2015	2016
<i>P</i>	302	386	412	503	470
<i>Q</i>	376	402	444	529	501
<i>R</i>	250	268	302	298	276
<i>S</i>	350	360	372	398	362
<i>T</i>	403	450	504	597	602

Production of company R in year 2014 is how much percent more than the production of company R in year 2013?

**Options:**

- 1) 12.68
- 2) 11.56
- 3) 14.42
- 4) 15.31

**Correct Answer:** 12.68

**QID : 125 -**

The table given below shows the production (in '000 tonnes) of five companies from 2012 to 2016.

नीचे दी गई तालिका में वर्ष 2012 से वर्ष 2016 तक पाँच कंपनियों के उत्पादन ('000 टन में) को दर्शाया गया है।

	Year / वर्ष				
Company कंपनी	2012	2013	2014	2015	2016
<i>P</i>	302	386	412	503	470
<i>Q</i>	376	402	444	529	501
<i>R</i>	250	268	302	298	276
<i>S</i>	350	360	372	398	362
<i>T</i>	403	450	504	597	602

Production of all companies in year 2014 is how much percent less than the production of all companies in year 2015?

**Options:**

1) 8.25

2) 11.3

3) 14.4

4) 12.5

**Correct Answer:** 12.5

**QID : 126** - What is the length (in metres) of the longest rod that can be placed in a room which is 2 metres long, 2 metres broad and 6 metres high?

**Options:**

1) 8

2)  $2\sqrt{11}$

3)  $3\sqrt{11}$

4) 10

**Correct Answer:**  $2\sqrt{11}$

**QID : 127** - If the height of a given cone became thrice and the radius of the base remains the same. What is the ratio of the volume of the given cone and the volume of the second cone?

**Options:**

- 1) 1 : 3
- 2) 1 : 9
- 3) 1 :  $\sqrt{3}$
- 4) 1 : 27

**Correct Answer:** 1 : 3

**QID : 128** - If the angles of a triangle are  $(2x - 8)^\circ$ ,  $(2x + 18)^\circ$  and  $6x^\circ$ . What is the value of  $3x$  (in degrees)?

**Options:**

- 1) 17
- 2) 34
- 3) 51
- 4) 60

**Correct Answer:** 51

**QID : 129** - Two identical circles each of radius 2 cm intersect each other such that the circumference of each one passes through the centre of the other. What is the area (in  $\text{cm}^2$ ) of the intersecting region?

**Options:**

1)

$$\frac{8\pi}{3} - 2\sqrt{3}$$

2)

$$\frac{8\pi}{3} - \sqrt{3}$$

3)

$$\frac{4\pi}{3} - \sqrt{3}$$

4)

$$\frac{4\pi}{3} - 2\sqrt{3}$$

**Correct Answer:**

$$\frac{8\pi}{3} - 2\sqrt{3}$$

**QID : 130** - What is the volume (in  $\text{cm}^3$ ) of a right pyramid of height 12 cm and having a square base whose diagonal is  $6\sqrt{2}$  cm?

**Options:**

- 1) 864
- 2) 432
- 3) 144

4) 288

**Correct Answer:** 144**QID : 131 -**

If  $x^2 - 7x + 1 = 0$ , then what is the value of  $x + \frac{1}{x}$ ?

यदि  $x^2 - 7x + 1 = 0$  हो, तो  $x + \frac{1}{x}$  का मान क्या है?

**Options:**

1) 7

2) 3

3) 51

4) 47

**Correct Answer:** 7**QID : 132 -**

If  $x^2 - 2\sqrt{10}x + 1 = 0$ , then what is the value of  $x - \frac{1}{x}$ ?

यदि  $x^2 - 2\sqrt{10}x + 1 = 0$  हो, तो  $x - \frac{1}{x}$  का मान क्या है?

**Options:**

1) 4

2) 6

3) 3

4) 5

**Correct Answer:** 6**QID : 133 -**

If  $\frac{3x-1}{x} + \frac{5y-1}{y} + \frac{7z-1}{z} = 0$ , then what is the value of

$\frac{1}{x} + \frac{1}{y} + \frac{1}{z}$ ?

यदि  $\frac{3x-1}{x} + \frac{5y-1}{y} + \frac{7z-1}{z} = 0$  हो, तो  $\frac{1}{x} + \frac{1}{y} + \frac{1}{z}$  का

मान क्या है?

**Options:**

- 1) -3
- 2) 0
- 3) 15
- 4) 21

**Correct Answer:** 15**QID : 134 -**

If  $x^2 - 3x + 1 = 0$ , then what is the value of  $x^4 + \frac{1}{x^4}$  ?

यदि  $x^2 - 3x + 1 = 0$  हो, तो  $x^4 + \frac{1}{x^4}$  का मान क्या है?

**Options:**

- 1) 11
- 2) 18
- 3) 47
- 4) 51

**Correct Answer:** 47**QID : 135 -**

What is the value of  $\frac{(a^2 + b^2)(a - b) - (a - b)^3}{a^2b - ab^2}$  ?

$\frac{(a^2 + b^2)(a - b) - (a - b)^3}{a^2b - ab^2}$  का मान क्या है?

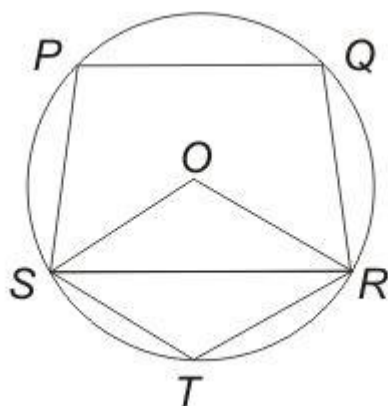
**Options:**

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

**Correct Answer:** 2**QID : 136 -**

In the given figure,  $O$  is the center of the circle,  $\angle PQR = 100^\circ$  and  $\angle STR = 105^\circ$ . What is the value (in degrees) of  $\angle OSP$ ?

दी गई आकृति में,  $O$  वृत्त का केंद्र है,  $\angle PQR = 100^\circ$  तथा  $\angle STR = 105^\circ$  है।  $\angle OSP$  का मान (डिग्री में) क्या है?



**Options:**

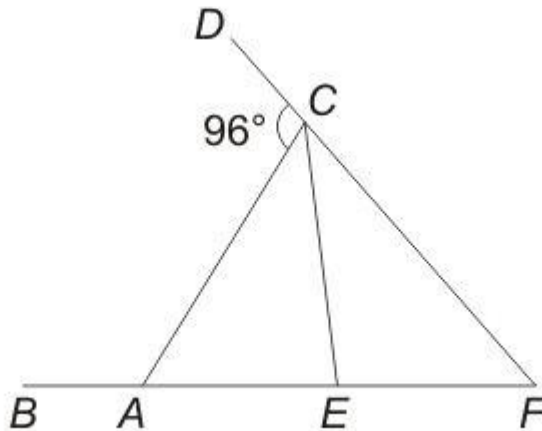
- 1) 95
- 2) 45
- 3) 75
- 4) 65

**Correct Answer:** 65

**QID :** 137 -

In the given figure,  $EF = CE = CA$ , what is the value (in degrees) of  $\angle EAC$ ?

दी गई आकृति में,  $EF = CE = CA$  है, तो  $\angle EAC$  का मान (डिग्री में) क्या होगा?



**Options:**

- 1) 58
- 2) 64
- 3) 72
- 4) 32

**Correct Answer:** 64

**QID : 138** - If length of each side of a rhombus ABCD is 16 cm and  $\angle ABC = 120^\circ$ , then what is the length (in cm) of BD?

**Options:**

- 1) 24
- 2) 12
- 3) 16
- 4)  $14\sqrt{3}$

**Correct Answer:** 16

**QID : 139** - In an isosceles triangle PQR,  $\angle P = 130^\circ$ . If I is the in-centre of the triangle, then what is the value (in degrees) of  $\angle QIR$ ?

**Options:**

- 1) 130
- 2) 120
- 3) 155
- 4) 165

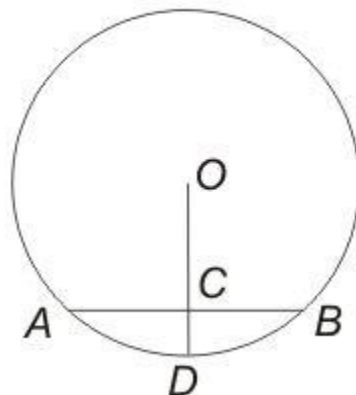
**Correct Answer:** 155



**QID : 140 -**

In the given figure,  $O$  is the centre of a circle of radius 13 cm and  $AB$  is a chord perpendicular to  $OD$ . If  $CD = 8$  cm, then what is the length (in cm) of  $AB$ ?

दी गई आकृति में,  $O$  एक वृत्त जिसकी त्रिज्या 13 से.मी. है, का केन्द्र है तथा  $AB$ ,  $OD$  के लम्बवत एक जीवा है। यदि  $CD = 8$  से.मी. हो, तो  $AB$  की लम्बाई (से.मी. में) क्या है?



**Options:**

- 1) 6 cm
- 2) 12 cm
- 3) 24 cm
- 4) 28 cm

**Correct Answer:** 24 cm

**QID : 141 -**

If  $\tan \theta = \frac{2}{3}$ , then what is the value of  $\frac{15 \sin^2 \theta - 3 \cos^2 \theta}{5 \sin^2 \theta + 3 \cos^2 \theta}$ ?

यदि  $\tan \theta = \frac{2}{3}$  है, तो  $\frac{15 \sin^2 \theta - 3 \cos^2 \theta}{5 \sin^2 \theta + 3 \cos^2 \theta}$  का मान क्या है?

**Options:**

1)

$$\frac{33}{32}$$

2)

$$\frac{11}{29}$$

3)

$$\frac{33}{47}$$

4)

$$\frac{11}{32}$$

**Correct Answer:**

$$\frac{33}{47}$$

**QID : 142** - If  $\sqrt{5} \tan \theta = 5 \sin \theta$ , then what is the value of  $(\sin^2 \theta - \cos^2 \theta)$ ?**Options:**1)  $3/5$ 2)  $1/5$ 3)  $4/5$ 4)  $2/5$ **Correct Answer:**  $3/5$ **QID : 143** -

What is the simplified value of

$$\frac{7}{\sec^2 \theta} + \frac{3}{1 + \cot^2 \theta} + 4 \sin^2 \theta?$$

$$\frac{7}{\sec^2 \theta} + \frac{3}{1 + \cot^2 \theta} + 4 \sin^2 \theta \text{ का सरलीकृत मान क्या है?}$$

**Options:**

1) 3

2) 4

3) 5

4) 7

**Correct Answer:** 7

**QID : 144** - Two posts are 4 m apart. Both posts are on same side of a tree. If the angles of depressions of these posts when observed from the top of the tree are  $45^\circ$  and  $60^\circ$  respectively, then what is the height of the tree?

**Options:**

- 1)  $\sqrt{3} + 1$
- 2)  $\sqrt{3}(\sqrt{3} + 1)$
- 3)  $2(\sqrt{3} + 1)$
- 4)  $4\sqrt{3}(\sqrt{3} + 1)$

**Correct Answer:**  $2(\sqrt{3} + 1)$

**QID : 145** - If  $\operatorname{cosec} \theta + 3 \sec \theta = 5 \operatorname{cosec} \theta$ , then what is the value of  $\cot \theta$ ?

**Options:**

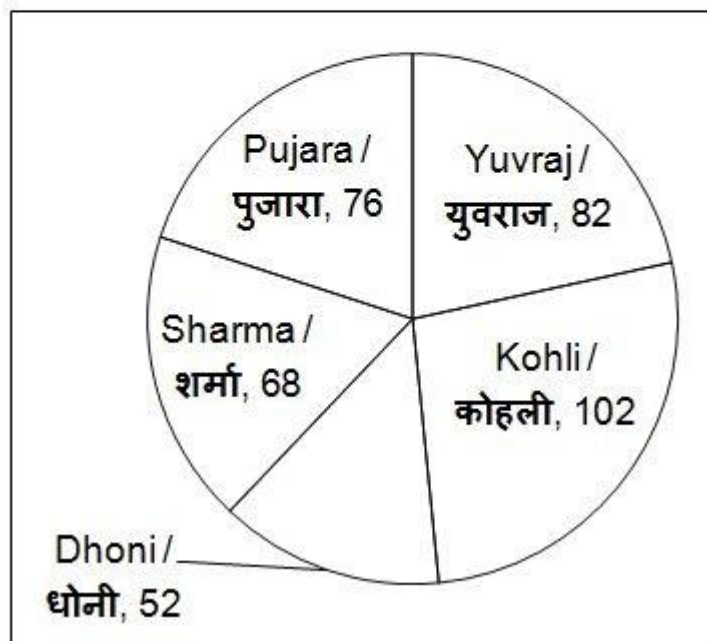
- 1)  $4/3$
- 2)  $3/4$
- 3)  $1/\sqrt{3}$
- 4)  $\sqrt{3}$

**Correct Answer:**  $3/4$

**QID : 146** -

The given pie chart shows the runs scored by 5 players in a match.

दिए गए वृत्त चित्र में 5 खिलाड़ियों द्वारा बनाए गए रनों को दर्शाया गया है।



The runs scored by Kohli are how much percent more than the runs scored by Sharma?

**Options:**

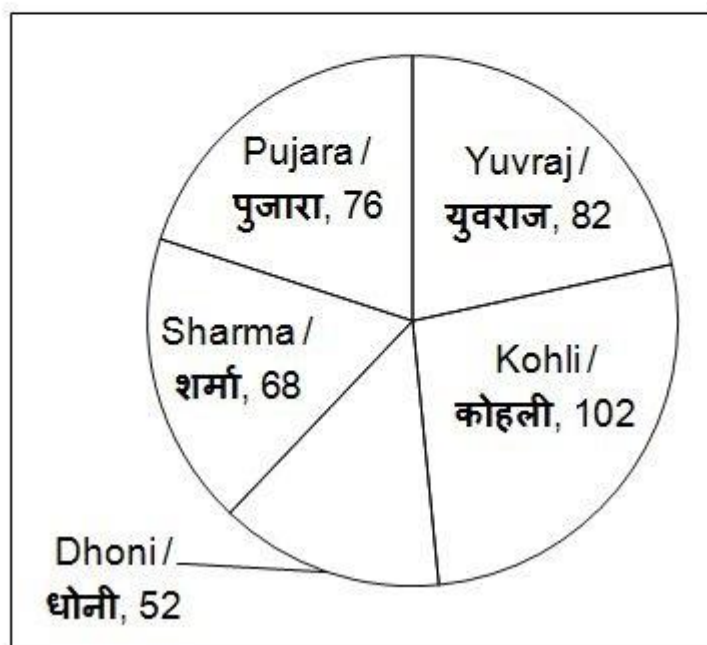
- 1) 100
- 2) 33.33
- 3) 66.66
- 4) 50

**Correct Answer:** 50

**QID : 147 -**

The given pie chart shows the runs scored by 5 players in a match.

दिए गए वृत्त चित्र में 5 खिलाड़ियों द्वारा बनाए गए रनों को दर्शाया गया है।



Runs scored by Kohli is what percent of runs scored by Yuvraj?

**Options:**

- 1) 124.39
- 2) 134.21
- 3) 113.13
- 4) 126.67

**Correct Answer:** 124.39

**QID : 148 -**

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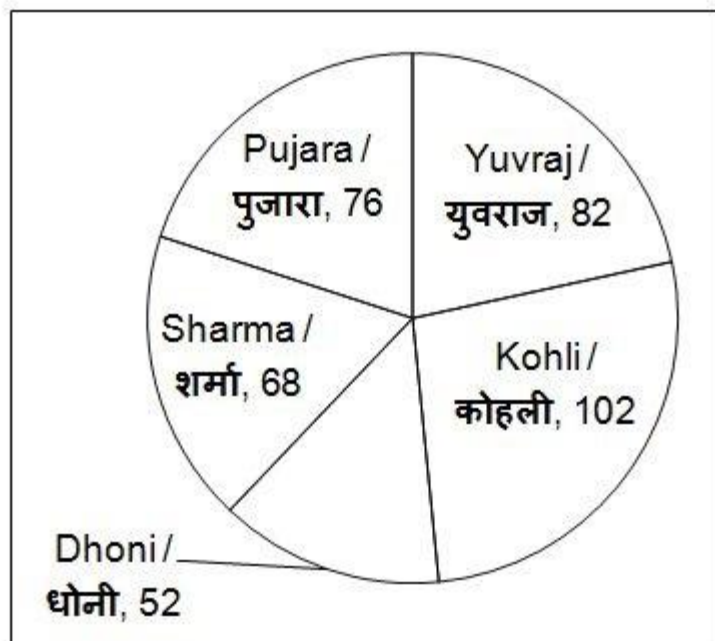
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The given pie chart shows the runs scored by 5 players in a match.

दिए गए वृत्त चित्र में 5 खिलाड़ियों द्वारा बनाए गए रनों को दर्शाया गया है।



Runs scored by Pujara is what percent of total runs scored by these 5 players?

**Options:**

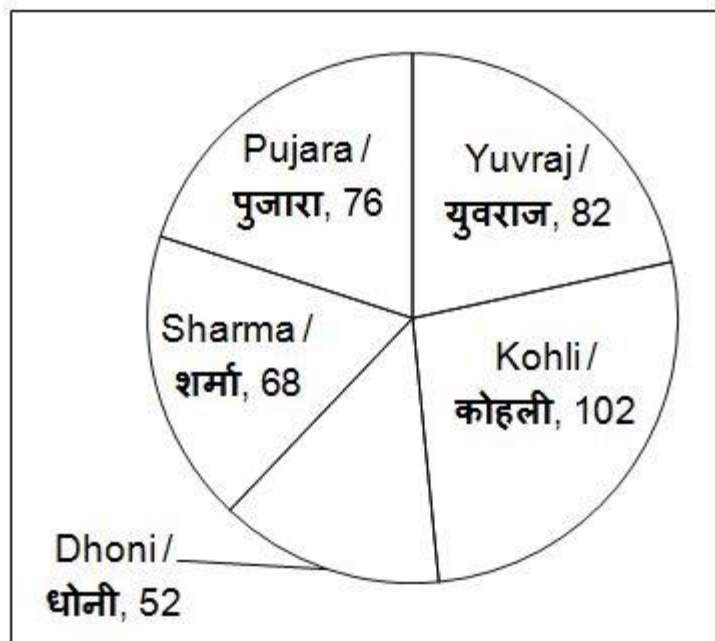
- 1) 25
- 2) 30
- 3) 20
- 4) 23

**Correct Answer:** 20

**QID : 149 -**

The given pie chart shows the runs scored by 5 players in a match.

दिए गए वृत्त चित्र में 5 खिलाड़ियों द्वारा बनाए गए रनों को दर्शाया गया है।



What is the central angle (in degrees) made by the sector of runs scored by Yuvraj?

**Options:**

- 1) 77.68
- 2) 74.64
- 3) 72.12
- 4) 79.34

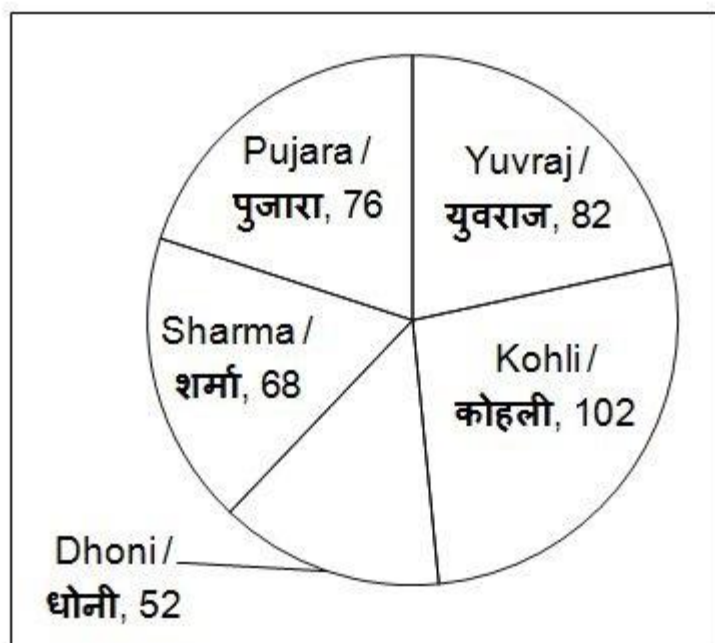
**Correct Answer:** 77.68

**QID : 150 -**



The given pie chart shows the runs scored by 5 players in a match.

दिए गए वृत्त चित्र में 5 खिलाड़ियों द्वारा बनाए गए रनों को दर्शाया गया है।



If runs scored by Rahane is 50% of the runs scored by Yuvraj, then runs scored by Rahane is what percent of total runs scored by Kohli, Pujara and Dhoni?

**Options:**

- 1) 16.41
- 2) 17.82
- 3) 18.92
- 4) 16.31

**Correct Answer:** 17.82





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