SSC CHSL (Tier - 1) Online Exam Paper - 2017 "held on 13 March 2018"

Afternoon Shift (Quantitative Aptitude)

QID : 1 - What is the place value and face value of 9 in 68956 respectively?

Options:

1) 9, 900

2) 900, 9

3) 9, 9

4) 9000, 900

Correct Answer: 900, 9

QID : 2 - Find the unit place digit in 71 x 72 x 73 x 74 x 76 x 77 x 78 x 79.

Options:

1) 2

2) 0

3) 4

4) 6

Correct Answer: 6

QID : 3 -

The value of $1 + 2^2 + 2^3 + 2^4 + ... + 2^9$ is _____.

$1 + 2^2 + 2^3 + 2^4 + ... + 2^9$ का मान_____ है।

Options:

1) 255

2) 511

3) 1021

4) 2047

Correct Answer: 1021

QID : 4 -

What will be the value of $a^3 + b^3$, if $a^2 + b^2 = 32$ and $a + b = 8$?

$a^3 + b^3$ का मूल्य क्या होगा, अगर $a^2 + b^2 = 32$ और $a + b = 8$ है?

Options:

1) 8

2) 32

3) 128

4) 256

Correct Answer: 128

QID : 5 - The line bisecting all the three angles of a triangle meets at a common point. This point is known as _____.

Options:

1) circum-center

2) centroid

3) orthocenter

4) in-center

Correct Answer: in-center

QID : 6 - The point of the intersection of three medians is known as the _____.

Options:

1) circum-centre

2) in-center

3) centroid

4) orthocenter

Correct Answer: centroid

QID : 7 - If P = 5X and Q = X, then P is how much percentage more than Q?

Options:

1) 80

2) 320

3) 500

4) 400

Correct Answer: 400

QID : 8 - The ratio of three numbers is 2 : 5 : 7. If their product is 1890, then what is the sum of the three numbers?

Options:

1) 82

2) 140

3) 42

4) 72

Correct Answer: 42

QID : 9 - P starts a business with Rs 14000. After 8 months Q joins P with Rs 8000. After 3 years, what will be the ratio of the profit of P and Q?

Options:

1) 12 : 5

2) 9 : 4

3) 14 : 9

4) 15 : 8

Correct Answer: 9 : 4

QID : 10 - A person bought 100 cars for Rs 40000. If the average price of 60 cars is Rs 500, then what will be the average price (in Rs) of remaining cars?

Options:

1) 200

2) 250

3) 300

4) 350

Correct Answer: 250

QID : 11 - The simple interest on a sum for 5 years is Rs 16800. The rate of interest for the first 3 years is 8% per annum and for the next 2 years is 12% per annum. What is the value (in Rs) of sum?

Options:

1) 30000

2) 38000

3) 32000

4) 35000

Correct Answer: 35000

QID : 12 - Selling price of an article is Rs 1144. If loss percentage is 12%, then what is the cost price (in Rs) of article?

Options:

1) 1300

2) 1006

3) 1242

4) 1440

Correct Answer: 1300

QID : 13 - Marked price of a chair is Rs 800 and discount is 15%. What is additional discount (in percentage) should be offered to the customer to bring the price of chair to Rs 578?

Options:

1) 15

2) 10

3) 16.5

4) 17.5

Correct Answer: 15

QID : 14 -

Which of the following statement(s) is/are **TRUE**?

I. $\sqrt[3]{512} \times \sqrt{256} > \sqrt[3]{343} \times \sqrt{289}$

II. $\sqrt{121} + \sqrt[3]{1331} > \sqrt[3]{125} \times \sqrt{125}$

निम्नलिखित में से कौन सा/से कथन सत्य है/हैं?

I. $\sqrt[3]{512} \times \sqrt{256} > \sqrt[3]{343} \times \sqrt{289}$

II. $\sqrt{121} + \sqrt[3]{1331} > \sqrt[3]{125} \times \sqrt{125}$

Options:

1) Only I

2) Only II

3) Neither I nor II

4) Both I and II

Correct Answer: Only I

QID : 15 - Two pipes can fill a cistern in 28 and 21 hours respectively and an another pipe can empty 30 gallons of water per hour. All the three pipes working together can fill the empty cistern in 84 hours. What is the capacity (in gallons) of the cistern?

Options:

1) 350

2) 450

3) 420

4) 480

Correct Answer: 420

QID : 16 - A train is moving at the speed of 36 km/hr. How many seconds it will take to cover a distance of 600 meters?

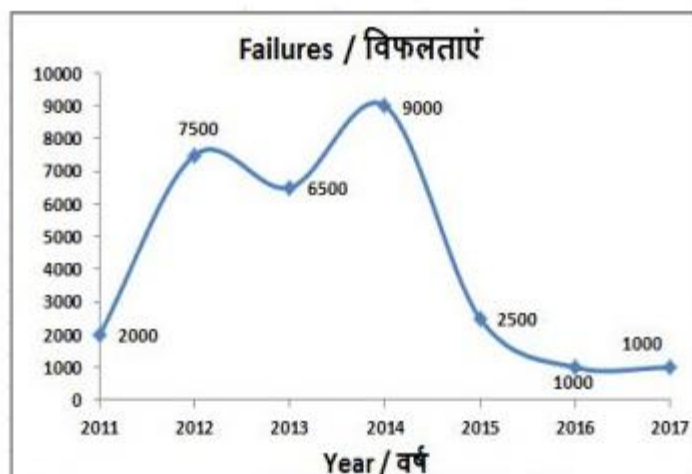**Options:**

1) 60

2) 120

3) 30

4) 40

Correct Answer: 60

QID : 17 -

The line graph shows the number of students of a certain university who failed in the given year in their final exams. Study the diagram and answer the following questions.

यह रेखा ग्राफ उन छात्रों की संख्या को दर्शाता है जो एक विशिष्ट विश्वविद्यालय में दिए गए वर्ष में अंतिम परीक्षा मे असफल हुए हैं। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों के उत्तर दें।

Failures / विफलताएं

In which year were failures greater than that of the previous year?

Options:

1) 2014

2) 2013

3) 2015

4) 2016

Correct Answer: 2014

QID : 18 -

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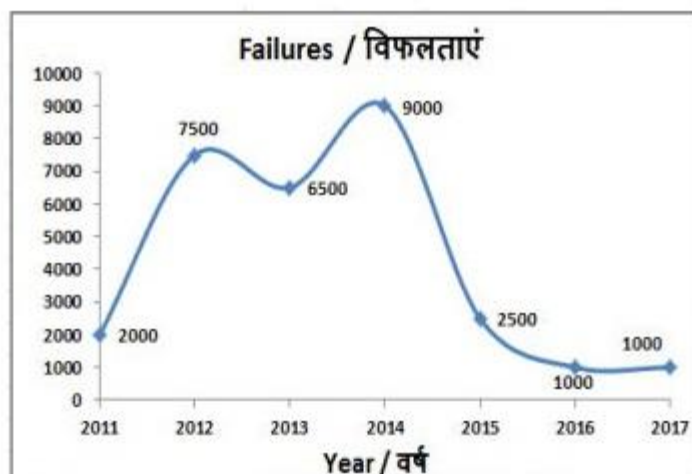
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The line graph shows the number of students of a certain university who failed in the given year in their final exams. Study the diagram and answer the following questions.

यह रेखा ग्राफ उन छात्रों की संख्या को दर्शाता है जो एक विशिष्ट विश्वविद्यालय में दिए गए वर्ष में अंतिम परीक्षा मे असफल हुए हैं। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों के उत्तर दें।

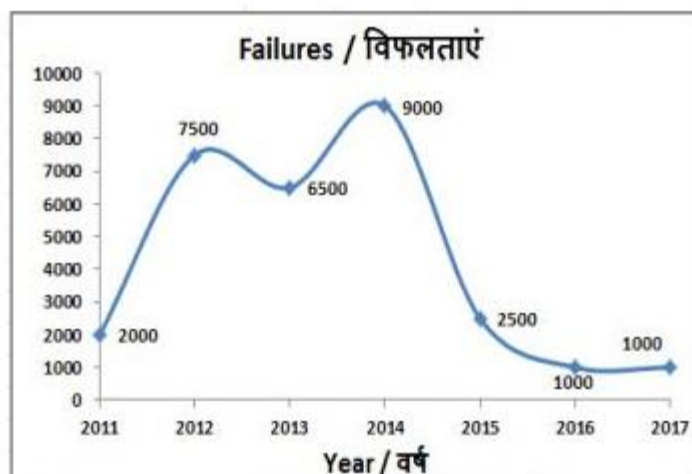**What was the difference in failures between the years 2011 and 2013?**

Options:

1) 6000

2) 4500

3) 6500

4) 4000

Correct Answer: 4500

QID : 19 -

The line graph shows the number of students of a certain university who failed in the given year in their final exams. Study the diagram and answer the following questions.

यह रेखा ग्राफ उन छात्रों की संख्या को दर्शाता है जो एक विशिष्ट विश्वविद्यालय में दिए गए वर्ष में अंतिम परीक्षा मे असफल हुए हैं। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों के उत्तर दें।

Failures / विफलताएं

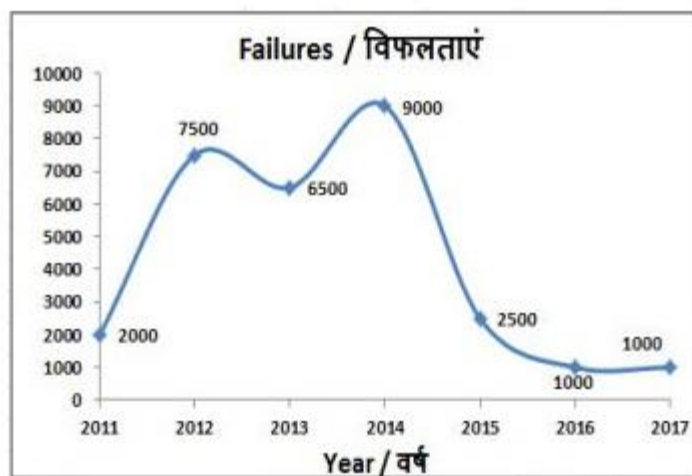**Failures in 2014 were greater than that in 2012 by _____.**

Options:

1) 25%

2) 16.67%

3) 20%

4) 15%

Correct Answer: 20%

QID : 20 -

The line graph shows the number of students of a certain university who failed in the given year in their final exams. Study the diagram and answer the following questions.

यह रेखा ग्राफ उन छात्रों की संख्या को दर्शाता है जो एक विशिष्ट विश्वविद्यालय में दिए गए वर्ष में अंतिम परीक्षा मे असफल हुए हैं। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों के उत्तर दें।

Failures / विफलताएं

What is the average number of failures in the last three years?

Options:

1) 1500

2) 1250

3) 1350

4) 1400

Correct Answer: 1500

QID : 21 - The area of a square is 40.5 cm². Find the length of its diagonal (in cm).

Options:

1) 9

2) 4.5

3) 18

4) 13.5

Correct Answer: 9

QID : 22 - What is the measure of an exterior angle of a regular polygon of 10 sides?

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Options:

1) 30

2) 24

3) 36

4) 20

Correct Answer: 36

QID : 23 - The total surface area of a hemisphere is 462 cm2. Find its diameter (in cm).

Options:

1) 7

2) 28

3) 21

4) 14

Correct Answer: 14

QID : 24 - What is the value of (sin60° - 2/√3) ?

Options:

1) -1/2√3

2) -1/2

3) 1/√3

4) (1-2√3)/2

Correct Answer: -1/2√3

QID : 25 - ∆PQR is right angled at Q. If tanP = 24/7, then what is the value of cosR ?

Options:

1) 25/7

2) 24/25

3) 24/7

4) 7/24

Correct Answer: 24/25

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