



## RRB JE 2nd June 2019 Shift-1

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## RRB JE 2nd June 2019 Shift-1

### Instructions

For the following questions answer them individually

### Question 1

Muscle fatigue occurs due to accumulation of -

- A CO
- B Carbon dioxide
- C Creatine phosphate
- D Lactic acid

Answer: D

## RRB NTPC Free Mock Tests

### Question 2

A triangular prism has a triangle base with sides 8, 15, 17 units and height 20 units. Its total surface area is:

- A 960
- B 940
- C 920
- D 1020

Answer: C

### Explanation:

A triangular prism has 5 faces:

2 triangular faces and 3 rectangular faces.

Surface area of a prism:

= Area of the 2 triangle of the prism + area of the 3 lateral rectangular parts

Area of the 2 triangle of the prism:

Triangle with sides 8, 15 and 17 units is a right-angled triangle with the height of 15 units.

Area of the 2 triangles =  $\frac{1}{2} \times bh \times 2$

$$= \frac{1}{2} \times 8 \times 15 \times 2$$

$$= 120$$

Surface area of the 2 triangular parts is 120 units<sup>2</sup>

Area of the 3 lateral rectangular parts:

The rectangles have area of:

8 units by 20 units, 15 by 20 units and 17 by 20 units.

Area of the rectangular parts:

$$(8 \times 20) + (15 \times 20) + (17 \times 20)$$

$$= 160 + 300 + 340$$

$$= 800 \text{ units}^2$$

The total area of the triangular prism thus is:

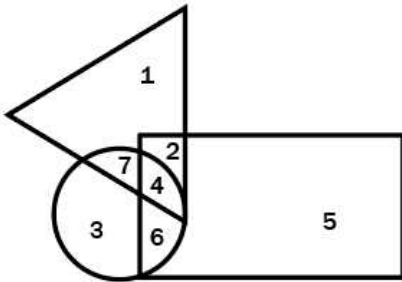
$$120 \text{ units}^2 + 800 \text{ units}^2 = 920 \text{ units}^2$$

Total surface area of the triangular prism = 920 units<sup>2</sup>

C is correct choice.

### Question 3

In the given figure, the circle represents Male, triangle represents Engineers and rectangle represents Doctors. which region represents both engineers and doctors but not male?



A 7

B 2

C 6

D 4

Answer: B

### Explanation:

Region 2 represents both engineers and doctors but not male.

B is correct choice.

### Question 4

With which of the following sports is the term 'Steeple chase' associated?

A Rowing

B Horse racing

C Polo

D Boxing

Answer: B

## RRB JE Previous Papers ( Download Pdf)

### Question 5

After selling 30% of the fruits, a fruit seller had 140 fruits left. How many were there originally?

A 288

B 350

C 300

D 200

Answer: D

**Explanation:**

According to question, 70% of total fruits = 140 fruits.

$$\text{So, Total number fruits} = \frac{140}{70} \times 100 = 200.$$

D is correct choice.

**Question 6**

Since sound wave is a disturbance, which moves in the medium by setting the neighbouring particles into motion, they are categorised in which wave category?

- A Electromagnetic waves
- B Microwaves
- C Mechanical waves
- D Radio waves

**Answer:** C

**Question 7**

The inertia of an object tends to cause the object to?

- A Decelerate due to friction
- B Increase its speed
- C Decrease its speed
- D Resist any change in its state of motion

**Answer:** D

## RRB JE Free Mock Test

**Question 8**

Two pipes can fill a tank in 20 and 24 minutes respectively. There is an outlet in the tank that can empty it at 3 gallons per minute. If all the pipes are opened, the tank gets filled in 15 minutes. Find the capacity of the tank.

- A 120 gallons
- B 108 gallons
- C 80 gallons
- D 150 gallons

**Answer:** A

**Explanation:**

Let say, the capacity of tank is = x ltr.

First pipe :

$$\text{it can fill in 15 min} = \frac{15x}{20} \text{ ltr.}$$

Second pipe :

$$\text{it can fill in 15 min} = \frac{15x}{24} \text{ ltr.}$$

Last pipe :

it can empty in 15 min =  $3 \times 15 \text{ ltr} = 45 \text{ ltr}$ .

So,

$$\frac{15x}{20} + \frac{15x}{24} - 45 = x.$$

$$\text{or, } \frac{15x}{20} + \frac{15x}{24} - x = 45.$$

$$\text{or, } \frac{90x+75x-120x}{120} = 45.$$

$$\text{or, } \frac{45x}{120} = 45.$$

$$\text{or, } x = 120.$$

A is correct choice.

#### Question 9

What is the commercial unit of electrical energy consumed?

- A Kilowatt hour (kWh)
- B Watt (W)
- C Volt (V)
- D Joule (J)

Answer: A

#### Question 10

What is the colour of sunlight when scattered by the air molecules in the atmosphere?

- A White
- B VIBGYOR
- C Blue
- D Red

Answer: C

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#### Question 11

In this question, two statements are given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

Statements:

1. All worms are mosquitoes.
2. All mosquitoes are birds.

Conclusions:

- I. All mosquitoes are worms.
- II. All worms are birds.

- A Only conclusion II follows
- B Only conclusion I follows
- C Both conclusions I and II follow

D Either conclusion I or II follows

**Answer: A**

**Explanation:**

Statements:

1. All worms are mosquitoes.
2. All mosquitoes are birds.

From statement 1 we can say that some mosquitoes are worms.

and from statement 2 we can say that all worms are definitely birds .

So, conclusion II is correct only.

A is correct choice.

**Question 12**

Two cans of milk contain 25% water and 50% water respectively. How much milk must be taken from the two cans to get 12 litres of milk so that it will contain water and milk in the ratio 3 : 5?

A 6 litres, 6 litres

B 4 litres, 8 litres

C 3 litres, 9 litres

D )5 litres, 7 litres

**Answer: A**

**Explanation:**

Let say ,x ltr taken from first can and y ltr taken second can.

So,  $x+y=12$ .....(1)

And, milk in first can = $0.75x$  and water= $0.25x$ .

in second can ,milk= $0.50y$  and water= $0.50y$ .

So,  $(0.75x+0.50y)/(0.25x+0.50y)=5/3$ .

or, $2.25x+1.5y=1.25x+2.5y$

or, $x=y$ .

So, $2x=2y=12$ .

or, $x=y=6$ .

A is correct choice.

**Question 13**

If 'M' means '÷', 'R' means '+', 'T' means '-', and 'K' means 'x', then,  $20 R 16 K 5 M 10 T 8 = ?$

A 36

B 32

C 20

D 12

**Answer: C**

**Explanation:**

After rearrangement,

$20+16 \times 5 \div 10-8$

$$=20+16\times 0.5-8$$

$$=20+8-8$$

$$=28-8$$

$$=20.$$

C is correct choice.

## RRB Group-D Previous Papers

### Question 14

When sulphuric acid is poured over zinc, which of the following gases is formed?

- A Sulphur dioxide
- B Hydrogen
- C Oxygen
- D Zinc dioxide

Answer: B

### Question 15

How many islands are there in Lakshadweep?

- A 20
- B 36
- C 26
- D 30

Answer: B

### Question 16

Complete the series. 36, 31, 29, 24, 22, (...)

- A 16
- B 17
- C 15
- D 13

Answer: B

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### Question 17

A discount of 15% on one article is the same as a discount of 20% on another article. Find the cost price of the two articles.

- A Rs.80, Rs.60
- B Rs.60, Rs.40

C Rs.40, Rs.20

D Rs.70, Rs.50

**Answer: A**

**Explanation:**

According to the question,

$$0.15c_1 = 0.20c_2$$

$$\text{or, } c_1/c_2 = 20/15 = 4/3.$$

So,  $c_1=80$  &  $c_2=60$  is possible choice.

A is correct choice.

**Question 18**

**Which tissue in a plant carries water?**

A Stomata

B Xylem

C Phylum

D Chlorophyll

**Answer: B**

**Question 19**

**Which of the following is the best source of Omega-3 fatty acids?**

A Corn oil

B Sardines

C Wheat products

D Spinach

**Answer: B**

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**Question 20**

**Find the odd one out from the given options**

A **W**

B **F**



C D

D B

Answer: A

**Explanation:**

B, D and F is 2 letters away from each other.

But W is different from the sequence.

A is correct choice.

**Question 21**

A thief escaped from the police and drove away in a bike at 100 km/h. The police immediately started chasing at 75 km/h. After an hour, there was an engine problem in the police vehicle which took 30 minutes to set it right. Thereafter, the speed of the vehicle picked up to 120 km/h. After how much time was the thief caught?

A 3 hours 40 minutes

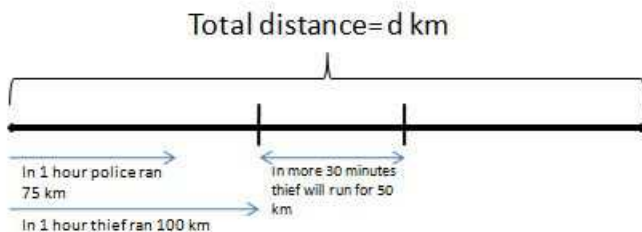
B 2 hours 30 minutes

C 5 hours 15 minutes

D 2 hours 45 minutes

Answer: C

**Explanation:**



Let say, from starting point thief is being caught at distance ' $d$ ' km.

So, Police covered  $(d-75)$  km at the speed of 120 km/h.

And, Thief covered  $(d-150)$  km at the speed of 100 km/h.

$$\text{So, } \frac{120}{100} = \frac{d-75}{d-150}.$$

$$\text{or, } 120d - 18000 = 100d - 7500.$$

$$\text{or, } 20d = 18000 - 7500 = 10500.$$

$$\text{or, } d = 525.$$

$$\text{So, Police caught thief after speed up in } = \frac{525-75}{120} \text{ hr} = \frac{450}{120} \text{ hr} = 3.75 \text{ hr}.$$

$$\text{So, Total time taken } = (3.75+1.5) \text{ hr} = 5.25 \text{ hr}.$$

C is correct choice.

**Question 22**

**Poliomyelitis is caused by?**

- A Fungus
- B Virus
- C Worms
- D Bacteria

**Answer: B**

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### Question 23

Which of the following is used for dissolution of gold?

- A Aqua-regia
- B Sodium hydroxide
- C Sulphuric acid
- D Ammonium hydroxide

**Answer: A**

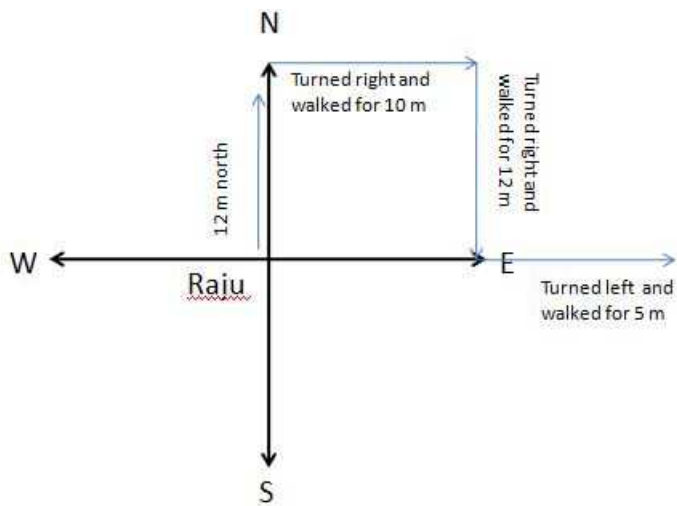
### Question 24

Starting from a point, Raju walked 12 m north, he turned right and walked 10 m, he again turned right and walked 12 m, then he turned left and walked 5 m. How far is he now and in which direction from the starting point?

- A 5 m towards east
- B 27 m towards east
- C 10 m towards west
- D 15 m towards east

**Answer: D**

**Explanation:**



So, He will be on east side and  $10+5=15$  m away from starting point.  
D is correct choice.

**Question 25**

Simplify  $\frac{1+\cos\theta}{\sin\theta}$

- A  $\operatorname{cosec}\theta - \cot\theta$
- B  $\operatorname{cosec}\theta + \cot\theta$
- C  $\tan\theta - \sec\theta$
- D  $\tan\theta + \sec\theta$

**Answer: B**

**Explanation:**

$$\begin{aligned} & \frac{1+\cos\theta}{\sin\theta} \\ &= \frac{1}{\sin\theta} + \frac{\cos\theta}{\sin\theta} \\ &= \operatorname{cosec}\theta + \cot\theta. \end{aligned}$$

B is correct choice.

**RRB General Science Notes (Download Pdf)**

**Question 26**

If 'P' denotes '-', 'Q' denotes '÷', 'R' denotes 'x' and 'W' denotes '+', then  $48 Q 12 R 10 P 8 W 4$ ?

- A 32
- B 36
- C 28
- D 40

**Answer: B**

**Explanation:**

After rearrangement,

$$\begin{aligned} &48 \div 12 \times 10 - 8 + 4 \\ &= 4 \times 10 - 8 + 4 \\ &= 40 - 8 + 4 \\ &= 44 - 8 \\ &= 36. \end{aligned}$$

B is correct choice.

#### Question 27

The length of a room is 5.5 m and width is 3.75 m. Find the cost of paving the floor by slabs at the rate of Rs.800 per  $m^2$ .

- A Rs.15600
- B Rs.15550
- C Rs.16500
- D Rs.15000

Answer: C

#### Explanation:

So, area of room =  $5.5 \times 3.75 = 20.625 m^2$ .

So, cost of paving =  $20.625 \times 800 = 16500$  Rs.

C is correct choice.

#### Question 28

Find the value of  $\frac{1}{\sqrt{2} + \sqrt{3} - \sqrt{5}} + \frac{1}{\sqrt{2} - \sqrt{3} - \sqrt{5}}$

- A  $\frac{1}{\sqrt{2}}$
- B  $\sqrt{2}$
- C  $\frac{1}{2}$
- D 1

Answer: A

## RRB GK Material (Download Pdf)

#### Question 29

Which is the smallest muscle in the human body?

- A Tibialis
- B Stapedius
- C Pectoralis
- D Heart

Answer: B

Question 30

Which of the chemical symbols is NOT correct?

- A Ag
- B Mg
- C Cu
- D AL

Answer: D

Question 31

The unsaturated hydrocarbons which contain one or more double bonds are called?

- A Alkenes
- B Alkynes
- C Alkanes
- D Alkali

Answer: A

**RRB NTPC Previous Papers (Download PDF)**

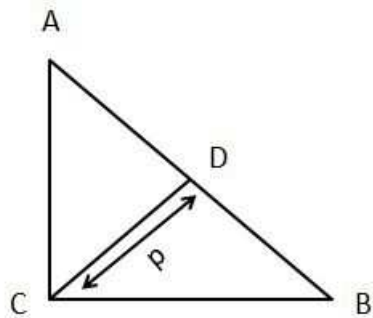
Question 32

$\triangle ABC$  is right angled at C. 'p' is the perpendicular from C to AB; AB, BC, CA are c, a, b respectively, then:

- A  $p^2 = ab/c$
- B  $pa = bc$
- C  $pc = ab$
- D  $pb = ac$

Answer: C

Explanation:



$\angle B$  is common and  $\angle BDC = \angle ACB = 90^\circ$

for  $\triangle ACB$  and  $\triangle BDC$ .

So,  $\triangle ACB \simeq \triangle BDC$ .

So,  $\frac{DC}{BC} = \frac{AC}{BA}$ .

$$\frac{p}{a} = \frac{b}{c}.$$

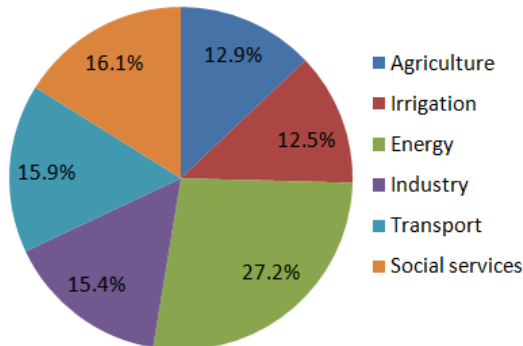
$$\text{or, } pc = ab.$$

C is correct choice.

### Question 33

Study the following pie chart and answer the questions given below it

The following pie chart represents the percentage distribution of different sectors



Find the angle subtended at center of the circle by the social services sector

- A  $70^\circ$
- B  $45^\circ$
- C  $46^\circ$
- D  $58^\circ$

Answer: D

Explanation:

$$100\% = 360^\circ.$$

$$\text{Social Services} = 16.1\%.$$

$$\text{So, Social Services} = \frac{360^\circ}{100} \times 16.1 = 57.96^\circ \approx 58^\circ.$$

D is correct choice.

### Question 34

Which of the following salts does NOT contain water of crystallisation?

- A Baking soda
- B Gypsum
- C Blue vitriol
- D Washing soda

Answer: A

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### Question 35

The matter that CANNOT be broken down by chemical reactions into simpler substances is known as?

- A Pure substances

B Mixtures

C Compounds

D Elements

Answer: D

**Question 36**

If in a certain language 'PEARL' is coded as 'SHDUO', how is 'COVET' coded in that language?

A EQXHV

B FRYHW

C FNYDW

D FRXHV

Answer: B

**Explanation:**

*PEARL* :  $P + 3 = S$ ,  $E + 3 = H$ ,  $A + 3 = D$ ,  $R + 3 = U$ ,  $L + 3 = O$ . : SHDUO.

Similarly, *COVET* :  $C + 3 = F$ ,  $O + 3 = R$ ,  $V + 3 = Y$ ,  $E + 3 = H$ ,  $T + 3 = W$ . : FRYHW.

B is correct choice.

**Question 37**

Which word will best complete the relationship given below? Face : Expression :: Hand : ?

A Work

B Gesture

C Handshake

D Painting

Answer: B

**Explanation:**

Face helps to give Expressions.

Similarly, Hand helps to give gestures.

B is correct choice.

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**Question 38**

Find the missing group of alphabets in the following series. gfe\_\_ ig \_\_ eii\_\_ fei\_\_ gf \_\_ ii

A figie

B ifgie

C ifige

D eifgi

Answer: B

**Question 39**

In this question, a statement is given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

**Statement:**

Men from country 'X' eat more and exercise less than they used to, and more and more of them are turning obese", says-a fitness expert.

**Conclusions:**

- I. The metabolism rate of men in country 'X' is very low.
- II. Exercising is not on the priority list for men in country X.

- A Neither conclusion I nor II follows
- B Only conclusion I follows
- C Only conclusion II follows
- D Both conclusions I and II follow

**Answer:** C

**Explanation:**

**Statement:**

Men from country 'X' eat more and exercise less than they used to, and more and more of them are turning obese", says-a fitness expert.

means that Exercise is not the priority for the men in country X.

So, C is correct choice.

**Question 40**

Which of the following numbers is exactly divisible by 4?

- A 10012
- B 10006
- C 10002
- D 10010

**Answer:** A

**Explanation:**

A number is divisible by 4 ,if last 2 digit of that number is divisible by 4.

12 is exactly divisible by 4.

So, 10012 is divisible by 4.

A is correct choice.

**RRB JE Previous Papers ( Download Pdf)**

**Question 41**

In a certain code, 'REPORT' is written as 'PRETOR'. How is 'PERSON' written in that code?

- A RPENSO
- B RSONPE
- C NSREPO



D EOPNSR

Answer: A

**Explanation:**

'REPORT' is written as 'PRETOR' means that letter in 3rd position comes in 1st position and letter in 6th position comes in 3rd position.

Similarly, *PERSON = RPENSO*.

A is correct choice.

**Question 42**

The cost price of 20 tables is equal to the selling price of 'x' tables. If there is a profit of 25%, then what is the value of 'x'?

A 18

B 15

C 25

D 16

Answer: D

**Explanation:**

Let say, cost and selling price of each table is c and s.

So,

$$20c = xs.$$

$$\frac{20}{x} = \frac{s}{c}.$$

$$\text{or, } \frac{20-x}{x} = \frac{s-c}{c}.$$

According to question,

$$\frac{20-x}{x} = 0.25.$$

$$\text{or, } 20 = 1.25x.$$

$$\text{or, } x = \frac{20}{1.25} = 16.$$

D is correct choice.

**Question 43**

Which of the following metals is/are found free in nature?

A Both gold and platinum

B Copper

C Platinum

D Gold

Answer: A

## RRB JE Free Mock Test

**Question 44**

Which word will best complete the relationship given below? Mountain : Valley :: Enemy : ?

A Cruel

- B Friend
- C Country
- D Stranger

**Answer: B**

**Explanation:**

Mountain and Valley are opposite words.

Similarly, Enemy and Friend are opposite words.

B is correct choice.

**Question 45**

**Complete the series. 3, 2, 7, 6, 11, (...)**

- A 10
- B 2
- C 4
- D 8

**Answer: A**

**Question 46**

**Find the representation of prime factors of 240.**

- A  $2 \times 2 \times 2 \times 3 \times 5$
- B  $2 \times 2 \times 2 \times 2 \times 5$
- C  $2 \times 2 \times 3 \times 3 \times 5$
- D  $2 \times 2 \times 2 \times 2 \times 3 \times 5$

**Answer: D**

**Explanation:**

$$240 = 16 \times 3 \times 5 = 2^4 \times 3 \times 5 = 2 \times 2 \times 2 \times 2 \times 3 \times 5.$$

D is correct choice.

## Daily Free RRB Online Test

**Question 47**

**Find the ODD one out from the given options.**

- A HJH
- B QSQ
- C TRT
- D BDB

**Answer: C**

**Explanation:**

Other than TRT, each letter in middle position of is two letter away from the first and last positioned letter.

So, C is correct choice.

**Question 48**

**A father is aged twice more than his son. The HCF of their ages is 22. What is the son's age?**

- A 24 years
- B 20 years
- C 22 years
- D 18 years

**Answer: C**

**Explanation:**

Let say, son's age= $x$ .

So, father's age= $2x$ .

So, LCM( $x, 2x$ )= $2x$ .

So, According to question,

$$x \times 2x = 22 \times 2x.$$

or,  $x = 22$ .

C is correct choice.

**Question 49**

**If in a certain code 'TWENTY' is written as 863985 and 'ELEVEN' is written as 323039, how will 'TWELVE' be written in that code?**

- A 863584
- B 863063
- C 863203
- D 863903

**Answer: C**

**Explanation:**

'TWENTY' is written as 863985 and 'ELEVEN' is written as 323039' means

T=8, W=6, E=3, N=9, Y=5, L=2, V=0.

So, TWELVE=863203.

C is correct choice.

## RRB Group-D Previous Papers

**Question 50**

**Find the least multiple of 7 that leaves the remainder 4 when divided by 6, 9, 15 and 18.**

- A 184
- B 94

C 274

D 364

Answer: D

Explanation:

$$6 = 3 \times 2, 9 = 3 \times 3, 15 = 3 \times 5, 18 = 3 \times 3 \times 2.$$

$$\text{So, LCM of } (6, 9, 15, 18) = 9 \times 5 \times 2 = 90.$$

So, the required number should be in the form of  $(90 \times 7 \times k + 4)$  or  $(360k + 4)$ .

So, the least number is 364 when  $k=1$ .

D is correct choice.

Question 51

One day morning, Priya was walking towards sun and took four times left turn. Which direction is she facing now?

A South

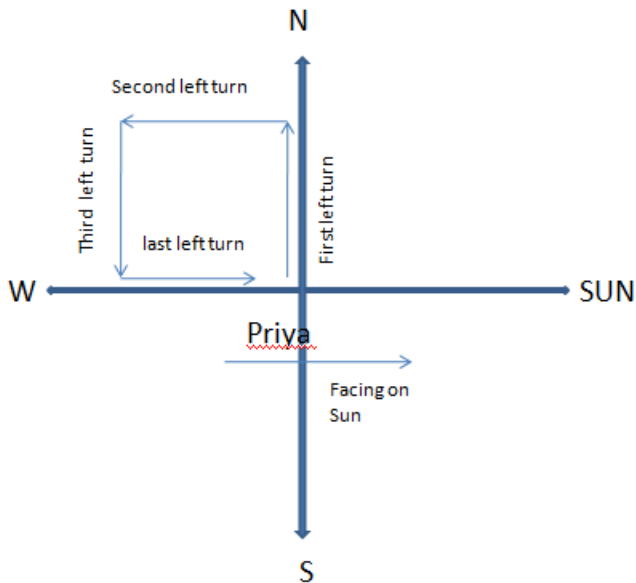
B East

C North east

D North

Answer: B

Explanation:



So, his final direction would be on East.

B is correct choice.

Question 52

BRICS Economic Research Annual Awards was instituted by?

A SEBI

B EXIM

C NABARD

D IDBI

Answer: B

## RRB Free Videos (You Tube Channel)

### Question 53

Which former Indian Prime Minister was Deputy Prime Minister under Morarji Desai?

- A V.P. Singh
- B Charan Singh
- C I. K. Gujral
- D Atal Bihari Vajpayee

Answer: B

### Question 54

Which is the smallest bone in the human body?

- A Stirrup bone
- B Hip bone
- C Fore arm bone
- D Rib

Answer: A

### Question 55

Which of the following is known for tiger reserves?

- A Vedanthangal
- B Mudumalai
- C Koonthankulam
- D Vettangudi

Answer: B

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### Question 56

A car is running at a speed of 216 km/hr. What distance will it cover in 30 seconds?

- A 1400 m
- B 1200 m
- C 1600 m
- D 1800 m

Answer: D

**Question 57**

Atoms having the same mass number but different atomic numbers are known as?

- A Nucleons
- B Isotopes
- C Isotones
- D Isobars

**Answer: D**

**Question 58**

Find the product of  $(a^2) \times (2a^{22}) \times (4a^{23})$ .

- A  $4a^{46}$
- B  $8a^{22}$
- C  $8a^{27}$
- D  $8a^{47}$

**Answer: D**

**Explanation:**

$$\begin{aligned} & a^2 \times 2a^{22} \times 4a^{23} \\ &= 8a^{(2+22+23)}. \\ &= 8a^{47}. \end{aligned}$$

D is correct choice.

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**Question 59**

The movement of water molecule from one cell to another depends on -

- A Plasma pressure
- B Osmotic concentration
- C Turgor pressure
- D Wall pressure

**Answer: B**

**Question 60**

Find the largest 4 digit number that is exactly divisible by 88.

- A 9944
- B 9768

C 8894

D 9844

Answer: A

**Explanation:**

Last three digit of 944 is exactly divisible by 8 and 9944 is also divisible by 11.

So, 9944 is the largest which is divisible by 88.

A is correct choice.

**Question 61**

Ages of P and Q are 50 and 40 respectively. How long ago was the ratio of their ages 3 : 2?

A 10 years

B 5 years

C 15 years

D 20 years

Answer: D

**Explanation:**

Let say , x years ago their age ratio was 3:2.

So,

$$\frac{50-x}{40-x} = \frac{3}{2}$$

$$\text{or, } 100 - 2x = 120 - 3x.$$

$$\text{or, } 3x - 2x = 120 - 100.$$

$$\text{or, } x=20.$$

D is correct choice.

## RRB General Science Notes (Download Pdf)

**Question 62**

Read the following information carefully and answer the question given below.

Seven members A, B, C, D, E, F and G represent different countries in Olympics are Germany, China, Korea, France, Russia, Austria and Japan; each one competes for a different sport, viz. volleyball, archery, basketball, tennis, boxing, athletics and football. The order of persons, countries and games is not necessarily the same. C represents China for archery. D represents Germany but not for volleyball or basketball. One who represents Japan competes for boxing. E competes for volleyball but not Korea. A represents Austria for athletics. The one who represents Russia competes for tennis. F does not represent Korea or Japan. G competes for basketball.

Who among the following represents Japan?

A B


B F

C C

D G

Answer: A

Explanation:



| Member Name | Country Name | Game Name |
|-------------|--------------|-----------|
| A           |              |           |
| B           |              |           |
| C           | China        | Archery   |
| D           |              |           |
| E           |              |           |
| F           |              |           |
| G           |              |           |

C represents China for archery..

| Member Name | Country Name | Game Name |
|-------------|--------------|-----------|
| A           |              |           |
| B           |              |           |
| C           | China        | Archery   |
| D           | Germany      |           |
| E           |              |           |
| F           |              |           |
| G           |              |           |

D represents Germany but not for volleyball or basketball.

| Member Name | Country Name | Game Name  |
|-------------|--------------|------------|
| A           |              |            |
| B           |              |            |
| C           | China        | Archery    |
| D           | Germany      |            |
| E           |              | Volleyball |
| F           |              |            |
| G           |              |            |

E competes for volleyball but not Korea.





| Member Name | Country Name | Game Name  |
|-------------|--------------|------------|
| A           | Austria      | Athletes   |
| B           |              |            |
| C           | China        | Archery    |
| D           | Germany      |            |
| E           |              | Volleyball |
| F           |              |            |
| G           |              |            |

A represents Austria for athletics.

| Member Name | Country Name | Game Name  |
|-------------|--------------|------------|
| A           | Austria      | Athletes   |
| B           |              |            |
| C           | China        | Archery    |
| D           | Germany      |            |
| E           |              | Volleyball |
| F           |              |            |
| G           |              | Basketball |

G competes for basketball.

| Member Name | Country Name | Game Name  |
|-------------|--------------|------------|
| A           | Austria      | Athletes   |
| B           | Japan        | Boxing     |
| C           | China        | Archery    |
| D           | Germany      |            |
| E           |              | Volleyball |
| F           |              |            |
| G           |              | Basketball |

One who represents Japan competes for boxing and F does not represent Korea or Japan.

| Member Name | Country Name | Game Name  |
|-------------|--------------|------------|
| A           | Austria      | Athletes   |
| B           | Japan        | Boxing     |
| C           | China        | Archery    |
| D           | Germany      |            |
| E           |              | Volleyball |
| F           | Russia       | Tennis     |
| G           |              | Basketball |

The one who represents  
Russia competes for tennis.

| Member Name | Country Name | Game Name  |
|-------------|--------------|------------|
| A           | Austria      | Athletes   |
| B           | Japan        | Boxing     |
| C           | China        | Archery    |
| D           | Germany      | Football   |
| E           | France       | Volleyball |
| F           | Russia       | Tennis     |
| G           | Korea        | Basketball |

E competes for volleyball but  
not Korea, means E is from  
France.

So, B represents Japan.

A is correct choice.

### Question 63

A coin is tossed four times. What is the probability of getting 'head' in the first two tosses?

A  $\frac{3}{8}$

B  $\frac{5}{16}$

C  $\frac{1}{4}$

D  $\frac{3}{16}$

Answer: C

Explanation:

If a coin tossed, chance of getting a head is  $= \frac{1}{2}$ .

If a coin tossed 4 times then probability of getting two head is  $= \frac{2}{4} = \frac{1}{2}$ .

So, required probability  $= \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ .

C is correct choice.

**Question 64**

The small blood vessels under our skin are called?

- A Capillaries
- B Cells
- C Nerves
- D Veins

**Answer:** A

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**Question 65**

Astronomers have recently discovered evidence of abundant water-bearing minerals on the surface of which near-Earth asteroid?

- A 99942 Apophis
- B 101955 Bennu
- C 21 Lutetia
- D 433 Eros

**Answer:** B

**Question 66**

If 'FRIEND' is coded as 'HUMJTK', how is 'CANDLE' coded?

- A EDRIRL
- B ESJFME
- C FYOBOC
- D DCQHKK

**Answer:** A

**Explanation:**

$F + 2 = H$ ,  $R + 3 = U$ ,  $I + 4 = M$ ,  $E + 5 = J$ ,  $N + 6 = T$ ,  $D + 7 = K$ .

Similarly,

CANDLE=EDRIRL

A is correct choice.

**Question 67**

The measurements from \_\_\_\_\_ are taken for the spherical lenses according to sign conventions

- A Optical centre
- B Pole
- C Principal focus

D Both principal focus and pole

Answer: A

## RRB NTPC Previous Papers (Download PDF)

Question 68

Read the following information carefully and answer the question given below.

L, M, N, O, P, Q, R and S are playing a game standing in a circle facing outwards. N is neither the neighbour of L nor of R. O is the neighbour of L but not of S. P is the neighbour of S and is third to the right of Q. M is the neighbour of Q and fourth to the left of O.

Who among the following stands third to the left of O?

A Q

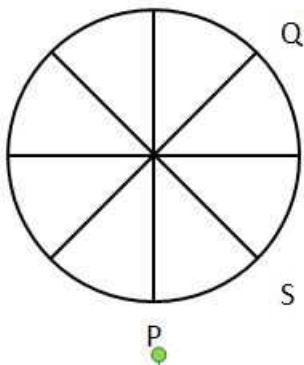
B M

C S

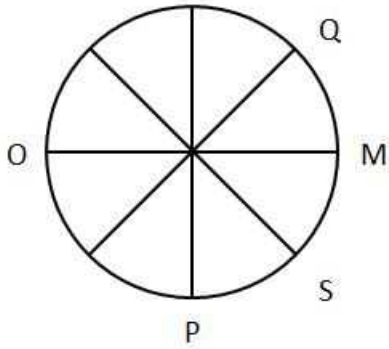
D P

Answer: C

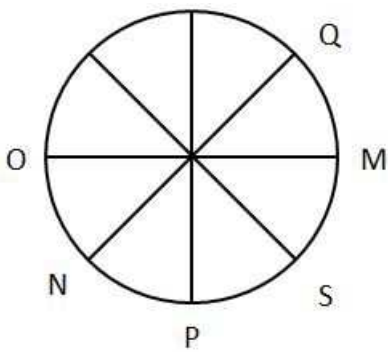
Explanation:



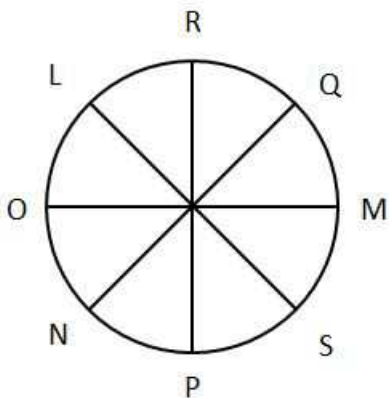
if we consider above figure from,  
P is the neighbour of S and is third to the right of Q.



M is the neighbour of Q and fourth to the left of O. So, M can not be on the left of Q, it has to be on right side of Q.



N is neither the neighbour of L nor of R. It means that L and R together sit and N situated between P and O.



N is neither the neighbour of L nor of R. And O is the neighbour of L but not of S.

So, S is third to the left of O.

C is correct choice.

**Question 69**

**Sucrose occurs naturally in?**

- A Sugarcane

- B Rice  
C Maize  
D Wheat

Answer: A

Question 70

X does half as much work as Y in  $\frac{1}{6}$  of time. If together they can complete a job in 10 days, how many days will Y take to complete it, when he works alone?

- A 35 days  
B 24 days  
C 40 days  
D 30 days

Answer: C

Explanation:

It is given that X does half as much work as Y in  $\frac{1}{6}$  of time,

So,

$$\frac{1}{6} \times \frac{1}{X} = \frac{1}{2} \times \frac{1}{Y}$$

$$\text{or, } \frac{X}{Y} = \frac{1}{3}.$$

They together do in 10 days.

$$\frac{1}{X} + \frac{1}{Y} = \frac{1}{10}.$$

$$\text{or, } \frac{1}{X} + 3X = \frac{1}{10}.$$

$$\text{or, } 3X = \frac{1}{10}.$$

$$\text{or, } X = \frac{40}{3}.$$

$$\text{So, } Y = \frac{40}{3} \times 3 = 40.$$

C is correct choice.

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Question 71

Which of the following dams in India is an example for arch dam?

- A Lakhwar dam  
B Bhakra Dam  
C Tehri dam  
D Idukki dam

Answer: D

Question 72

The difference between Compound Interest and Simple Interest in 2 years on a certain sum is Rs.8 at 8% rate. What is the sum?

- A Rs.1500
- B Rs.1000
- C Rs.1250
- D Rs.2000

**Answer:** C

**Explanation:**

Let say, the sum is P.

$$C.I = P \left(1 + \frac{8}{100}\right)^2 - P = 0.1664P.$$

$$S.I = P \frac{2 \times 8}{100} = \frac{16P}{100}.$$

$$\text{So, } C.I - S.I = 0.1664P - 0.1600P = 8.$$

$$\text{or, } 0.0064P = 8.$$

$$\text{or, } P = 1250.$$

C is correct choice.

**Question 73**

**Simplify**  $3.\overline{36} - 2.\overline{05} + 1.\overline{33}$

- A  $2.\overline{64}$
- B  $2.\overline{61}$
- C 2.64
- D  $2.\overline{64}$

**Answer:** A

**Explanation:**

Let say,  $0.\overline{36} = x$ ,  $0.\overline{05} = y$  and  $0.\overline{33} = z$ .

$$\text{So, } 36.\overline{36} = 100x$$

$$\text{or, } 36 + x = 100x.$$

$$\text{or, } x = \frac{36}{99}.$$

$$\text{and, } y = 0.05$$

$$\text{or, } 100y = 5 + 0.05 = 5 + y.$$

$$\text{or, } y = \frac{5}{99}.$$

and,

$$z = 0.\overline{33}$$

$$\text{or, } 100z = 33 + 0.\overline{33} = 33 + z.$$

$$\text{or, } z = \frac{33}{99}.$$

So,

$$3.\overline{36} - 2.\overline{05} + 1.\overline{33}$$

$$= 3 + x - 2 - y + 1 + z.$$

$$= 3 + \frac{36}{99} - 2 - \frac{5}{99} + 1 + \frac{33}{99}.$$

$$= 2 + \frac{36-5+33}{99}$$

$$= 2 + \frac{64}{99}$$

$$= 2 + 0.64 = 2.64.$$

A is correct choice.

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### Question 74

ISRO Launched PSLV C-45 Carrying EMISAT with how many nano satellites in 2019?

A 40

B 28

C 25

D 23

Answer: B

### Question 75

When did Himachal Pradesh celebrate its 72nd Himachal Day?

A 16 April

B 13 April

C 15 April

D 18 April

Answer: C

### Question 76

When is 'World Wetlands Day' celebrated?

A February 2

B March 2

C December 16

D November 14

Answer: A

## RRB JE Previous Papers ( Download Pdf)

### Question 77

Simplify  $\binom{2}{3} + \binom{5}{6} - \binom{1}{9} + \binom{7}{9}$

A  $\frac{13}{6}$

B  $\frac{17}{9}$



C  $\frac{35}{18}$

D  $\frac{43}{18}$

Answer: A

Explanation:

$$\frac{2}{3} + \frac{5}{6} - \frac{1}{9} + \frac{7}{9}$$

$$= \frac{12+15-2+14}{18}$$

$$= \frac{39}{18}$$

$$= \frac{13}{6}$$

A is correct choice.

#### Question 78

Two pipes P and Q together can fill a cistern in 4 hours. When opened separately, Q will take 6 hours more than P to fill the cistern. In how much time can P alone fill the cistern?

A 6 hours

B 7 hours

C 8 hours

D 5 hours

Answer: A

Explanation:

Let pipe P take  $x$  hours to fill the cistern. Then pipe Q takes  $(x+6)$  hours to fill the same cistern.

Pipes P and Q together fill  $(1/x)+1/(x+6) = 1/4$ th of the cistern in 1 hours

$$4(x + 6 + x) = x(x + 6)$$

$$8x + 24 = x^2 + 6x$$

$$\text{or, } x^2 - 2x - 24 = 0$$

$$\text{or, } (x - 6)(x + 4) = 0$$

$$\text{or, } x = 6.$$

A is correct choice.

#### Question 79

The difference between Compound Interest, compounded half-yearly and Simple Interest for two years on a certain sum at 10% rate is Rs.124.05. Find the sum.

A Rs.8400

B Rs.10000

C Rs.8200

D Rs.8000

Answer: D

Explanation:

Simple Interest for ₹ 100 for 2+ years @ 10% interest =  $\frac{PNR}{100}$

$$= ₹ 100 \times 2 \times \frac{10}{100} = ₹ 20.$$

Compound interest for ₹ 100 for 2- years @ 10% interest compounded every 6- months

$$= ₹100 (1.05)^4 - 100 = ₹ 21.550625$$

So difference in the compound interest and Simple Interest= ₹(21.550625- 20) = ₹1.550625

Therefore if the difference is ₹1.550625 the principal is= ₹100.

If the difference is ₹124.05 the Principal =  $124.05/1.550625 \times 100$

$$= ₹ 8000$$

D is correct choice.

## RRB JE Free Mock Test

### Question 80

What does a scalar quantity have?

- A Only magnitude
- B Either direction or magnitude
- C Only direction
- D Both magnitude and direction

Answer: A

### Question 81

Mendeleev's periodic law is based on? A) Atomic mass B) Number of neutrons

- A Atomic mass
- B Number of neutrons
- C Atomic radius
- D Atomic number

Answer: A

### Question 82

Which of the following is the natural fuel formed deep under the Earth from the pre-historic remains of living organisms like plants and animals?

- A Solid fuels
- B Fossil fuels
- C Liquid fuels
- D Gaseous fuels

Answer: B

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### Question 83

Height 'h' of a cylinder equals the circumference of its base. Then, the curved surface area in terms of 'h' is:

- A  $h^2$

- B  $h^3$
- C  $3h^2$
- D  $\frac{2h}{3}$

**Answer:** A

**Explanation:**

According to question,

$$h = 2\pi r.$$

$$\text{or, } r = \frac{h}{2\pi}.$$

$$\text{So, curved surface area} = 2\pi r \times h = 2\pi \times \frac{h}{2\pi} \times h = h^2.$$

A is correct choice.

**Question 84**

**Who among the following was a Governor-General of India?**

- A Maulana Azad
- B C. Rajagopalachari
- C B.R. Ambedkar
- D Sardar Vallabhbhai Patel

**Answer:** B

**Question 85**

**Under which of the following Parts of the Indian Constitution were Article 36 to 51 listed?**

- A The Co-operative society
- B Fundamental duties
- C The Municipalities
- D Directive principles of state policy

**Answer:** D

## RRB Group-D Previous Papers

**Question 86**

**Complete the series. 165, 275, 15, 25, 3, (...)**

- A 5
- B 12
- C 11
- D 8

**Answer:** A

**Explanation:**

The odd columns are

$$\begin{array}{ccc} 165, & 15, & 3 \\ \hline & \div 11 & \div 5 \end{array}$$

And the even columns are

$$\begin{array}{ccc} 275, & 25, & 5 \\ \hline & \div 11 & \div 5 \end{array}$$

5 is the next number in sequence.

A is correct choice.

**Question 87**

**Shattering of glass and damage to buildings can be caused by?**

- A Sound at about 10kHz
- B Subsonic sound
- C Infrasound
- D Shock waves produced by supersonic aircraft

**Answer:** D

**Question 88**

**Which word will best complete the relationship given below?**

**Cobbler : Awl :: Barber : ?**

- A Scissors
- B Plough
- C Sword
- D Spade

**Answer:** A

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**Question 89**

**Which cells present in the retina are sensitive to bright and normal light, and gives colour sensation ?**

- A Bright cells
- B Blind cells
- C Rods or rod shaped cells
- D Cones or cone shaped cells

**Answer:** D

**Question 90**

How many natural numbers up to 100 are divisible by both 2 and 3?

- A 13
- B 14
- C 17
- D 16

**Answer:** D

**Explanation:**

If a number is divisible by 6 then only it is divisible by 2 and 3.

There are  $\frac{100}{6} \simeq 16$  numbers up to 100 which are divisible by 2 and 3.

D is correct choice.

**Question 91**

If lubricants are used in machine parts, how does the movement become?

- A Uneven
- B Difficult
- C Rough
- D Smooth

**Answer:** D

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**Question 92**

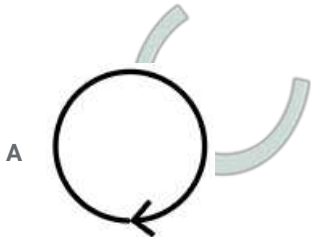
Which of the following countries has agreed to 'joint border reaction force' with Pakistan in 2019?

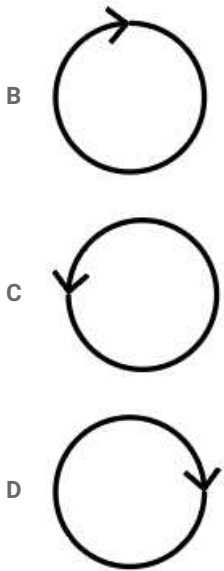
- A China
- B Iran
- C Sri Lanka
- D Afghanistan

**Answer:** B

**Question 93**

Find the odd one out from the given options





Answer: C

**Explanation:**

Diagram in A,B,D are rotated in clockwise direction but, diagram in C is rotated in anti-clockwise direction.

C is correct choice.

**Question 94**

Find the missing group of alphabets in the following series. AZ, DW, GT, (...), MN

A NO

B JQ

C RI

D CY

Answer: B

**Explanation:**

**Conversion Table**

|        |        |        |
|--------|--------|--------|
| A = 1  | K = 11 | U = 21 |
| B = 2  | L = 12 | V = 22 |
| C = 3  | M = 13 | W = 23 |
| D = 4  | N = 14 | X = 24 |
| E = 5  | O = 15 | Y = 25 |
| F = 6  | P = 16 | Z = 26 |
| G = 7  | Q = 17 |        |
| H = 8  | R = 18 |        |
| I = 9  | S = 19 |        |
| J = 10 | T = 20 |        |

$AZ = 1 + 26 = 27, DW = 4 + 23 = 27, GT = 7 + 20 = 27, MN = 13 + 14 = 27.$

Similarly,

$JQ = 10 + 17 = 27.$

B is correct choice.

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**Question 95**

If iodine is added to a peeled potato, then it will turn?

- A Red
- B Yellow
- C Black
- D Blue

Answer: C

**Question 96**

Priya rode her cycle 2 km westward and took right and rode another 1 km. Again she took left turn and rode 1km. How many kilometers has Priya rode towards westwards?

- A 2 km
- B 1 km
- C 4 km
- D 3 km

Answer: D

**Explanation:**

After 2 km walk through westward ,he took right turn and walk for 1 km.

It means that he walk 1 km towards Northward.

But then he walked for 1 km by took a left turn from there.

So, he walked a total of  $(2+1) = 3$  km through westward.

D is correct choice.

**Question 97**

In cricket, who decides a dismissal on the basis of the replay?

- A 2nd umpire
- B 5th umpire
- C 3rd umpire
- D 4th umpire

Answer: C

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**Question 98**

What is the IUPAC name for acetic acid?

- A Propanoic acid
- B Ethanoic acid
- C Methanoic acid
- D Butanoic acid

Answer: B

Question 99

Which is the highest literary award of India?

- A Jnanpith Award
- B Vyas Samman
- C Sahitya Akademi Award
- D Kabir

Answer: A

Question 100

Each interior angle of a regular polygon is greater than its exterior angle by  $36^\circ$ . Find the number of sides of the polygon.

- A 4
- B 5
- C 10
- D 8

Answer: B

**Explanation:**

In the regular polygon, interior angle (IA) = exterior angle (EA) + 36, or

EA = IA - 36.

But IA + EA = 180, or

2 IA - 36 = 180

2IA = 216,

IA = 108 deg and EA = 72 deg

Number of sides of regular polygon =  $360/72 = 5$ .

B is correct choice.

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