

FREQUENTLY ASKED QUESTIONS



What is the NOF Champions League?

The NOF Champions League is the most prestigious and highly anticipated competitive exam of the year. This is a paid Level 2 exam where the top students from each country compete against one another.

Who qualifies for the NOF Champions League?

All students who have secured A++ and A+ grades are eligible to participate in the NOF Champions League.

Can any student who pays the fee participate?

NOF Champions League is an INVITATION ONLY event. Only students who have secured A++ and A+ in any subject qualify for that specific subject.

Students from which classes can participate?

Students from Nursery to Grade 10 can participate.

What is the syllabus for the exam?

The syllabus remains the same as it was for Level 1.

How can a child prepare for the Champions League?

Practice question papers will be provided FREE to every participant in the form of an e-booklet. Each e-booklet contains 4 sets of question papers, with 40 questions in each set. The e-booklet will be sent to the child on his/her registered email ID with NOF.

Will there be any negative marking?

Yes, +4 for a Correct and -1 for a Wrong Answer.

Is it mandatory to appear for this exam?

If you want to receive the NCL medal then you have to appear for the examination

Where will the exam be conducted?

It will be an online exam, and students can take it from home using any device (PC/laptop/tablet/mobile phone) with an active front camera.

All the best

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Q 1.	. What is the smallest number divisible by both 12 and 18?					
A.	32	B.	54			
C.	72	D.	108			
Q 2.	Two buses leave a stati	on at t	he same	time. One bus arrives		
ever	y 20 minutes, and the ot	her eve	ery 30 m	inutes. How long will it		
take	for both buses to arrive	at the	station t	ogether again?		
A.	30 minutes	B.	60 mir	nutes		
C.	90 minutes	D.	120 minutes			
Q 3.	Which of the following	repres	ents the	year 1987 in Roman		
num	erals?					
A.	MCMLXXXVII	В.	MCMI	XXXXVII		
C.	MCMXCVII	D.	MCMI	_XXXVI		
Q 4.	Find the sum of the dig	its of tl	ne larges	t four-digit number		
divis	ible by 27.					
A.	18	В.	27			
C.	36	D.	45			
Q 5.	A number is divisible by	both !	9 and 12	. Which of the following		
is alv	ways true about the num	ber?				
A.	It is divisible by 36.		В.	It is divisible by 18.		
C.	It is divisible by 72.		D.	It is divisible by 108.		



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Q 6.	Convert 7.25 into a fraction.				
A.	720/100		В.	29/4	
C.	145/20		D.	725/1000	
Q 7.	Simplify 4/5+ 3/	10?			
A.	1/2		В.	11/10	
C.	7/10		D.	1/10	
Q 8.	Divide 3.6 by 1.2	2.			
A.	2.4	B.	3.2		
C.	1.2	D.	3		

Q 9. A farmer had 120kg of grain. He sold 2/3 of it and then used 1/4 of the remainder to feed his livestock. How much grain does he have left?

A. 20kgB. 25kgC. 15kgD. 10kg

Q 10. A mixture contains milk and water in the ratio 8:5. If the total quantity of the mixture is 78 liters, how much water is in the mixture?

A. 25 litersB. 30 litersC. 35 litersD. 40 liters



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Q 11. The ratio of two numbers is 7:11. If the difference between
the numbers is 56, what is the larger number?

- **A.** 144
- **B.** 154
- **C.** 160
- **D.** 172

Q 12. A sum of ₹960 is divided between A and B in the ratio 7:5. How much does A get?

- **A.** ₹420
- **B.** ₹480
- **c.** ₹560
- **D.** ₹600

Q 13. The ratio of boys to girls in a class is 5:7. If there are 35 boys, how many girls are there?

- **A.** 42
- **B.** 44
- **C.** 49
- **D.** 51

Q 14. The length of a rectangle is 8 cm, and its breadth is 6 cm. What is its perimeter?

- **A.** 24 cm
- **B.** 26cm
- **C.** 28cm
- **D.** 30 cm

Q 15. The area of a square is 144 cm². What is its perimeter?

- **A.** 36 cm
- **B.** 48 cm
- **C.** 60 cm
- **D.** 72 cm



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Q 16. A circular garde	n has a radius	of 7 m. \	What is its a	rea? (Take

$\pi = 22/7$)

- **A.** 132 m²
- **B.** 154 m²
- **C.** 176 m²
- **D.** 196 m²

Q 17. The length, breadth, and height of a cuboid are 5 cm, 4 cm, and 3 cm, respectively. What is its volume?

- **A.** 60 cm³
- **B.** 70 cm³
- **C.** 80 cm³
- **D.** 90 cm³

Q 18. A triangle has a base of 10 cm and a height of 8 cm. What is its area?

- **A.** 20 cm²
- **B.** 30 cm²
- **C.** 40 cm²
- **D.** 50 cm²

Q 19. Solve for x: 3x-7=11.

- **A.** x=4
- **B.** x=6
- **C.** x=3
- **D.** x=2

Q 20. The difference between the squares of two numbers is 39. If the larger number is 8, find the smaller number.

- **A.** 4
- В.
- **C.** 6
- **D.** 7



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Q	21.	If	5x+3=	2x+12,	what	is	x?
---	-----	----	-------	--------	------	----	----

- **A.** 3
- **B.** -3
- **C.** 4
- **D.** 2

Q 22. A shopkeeper sells 3 pens and 5 pencils for ₹35, and 4 pens and 3 pencils for ₹37. Find the cost of one pen and one pencil.

- **A.** ₹5 (pen), ₹3 (pencil)
- **B.** ₹4 (pen), ₹2 (pencil)
- **C.** ₹6 (pen), ₹1 (pencil)
- **D.** ₹3 (pen), ₹5 (pencil)

Q 23. The sum of two integers is -7, and their difference is -3. What are the integers?

- **A.** -2 and -5
- **B.** -1 and -6
- **C.** -4 and -3
- **D.** -5 and -2

Q 24. A diver is 10 meters below sea level. He then dives another 15 meters downward. What is his final position relative to sea level?

- **A.** 10m
- **B.** -15m
- **C.** -25m
- **D.** 5m

Q 25. The temperature at 6 AM was -4°C. By noon, it increased by 9°C. What was the temperature at noon?

- **A.** -13°C
- **B.** -5°C
- **C.** 5°C
- **D.** 13°C

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Q 26.	A submarine was at a	depth of-350m.	It ascends 1	L50m.	What
is its	new depth?				

A. -500m **B.** -200m **C.** 200m **D.** -300m

Q 27. Which of the following polygons does not have rotational symmetry?

A. Equilateral triangle **B.** Square

C. Regular pentagon **D.** Scalene triangle

Q 28. The radius of a circle is 14cm. What is the length of an arc subtending a 90° angle at the center?

A. 11cmB. 22cmC. 33cmD. 44cm

Q 29. A circle has a radius of 10cm. What is the area of a sector with a central angle of 72°?

A. 31.4cm² **B.** 62.8cm² **C.** 78.5cm² **D.** 157cm²

Q 30. If a regular hexagon has a perimeter of 72cm, what is the length of each side?

A. 6cmB. 8cmC. 10cmD. 12cm



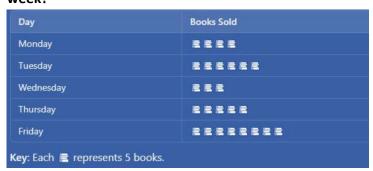
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Q 31. What is the sum of the interior angles of a polygon with 12 sides?

A. 1800° **B.** 2160° **C.** 1620° **D.** 1440°

Q 32. The following pictograph shows the number of books sold by a store in a week: What is the total number of books sold in the week?



A. 90 **B.** 120 **C.** 130 **D.** 150



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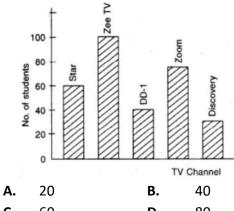
Q 33. In a classroom survey, students' favorite colors were recorded as follows: How many students were surveyed in total?

Color	Students Represented
Red	
Blue	
Green	
Yellow	

A. 22 В. 24

C. 28 D. 34

Q 34. How many students like DD-1?



C. 60

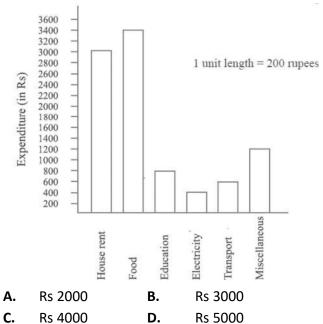
D. 80



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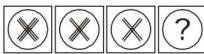
Q 35. How much Rajesh spent on Food and transport?



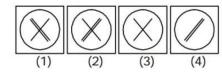
Q 36. In each of the following questions, which answer figure will come next in the series of question figures?

A. 1 **B.** 2 **C.** 3 **D.** 4

Question Figures:



Answer Figures:



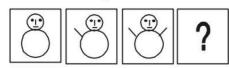


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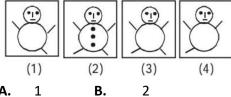
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Q 37. Find the missing figure the series from the given answer figures.

Question Figure:



Answer Figures:



1

В.

C. 3

4 D.

Q 38. What will be the water image of the given figure?

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PIONEER

None of these

A. Α

В. В

C. C

D. D



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Q 39. which answer figure will complete the pattern in the question figure?

Question Figures: Answer Figures:











A.

а

В. b

C. С D. d

Q 40. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?

Question Figure: **Answer Figures:**





2

4





A.

1

3

В. D.

C.

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ANSWER KEY

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
С	В	Α	В	Α	В	В	D	D	В
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
В	С	С	В	В	В	А	С	В	В
21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
Α	В	D	C	C	В	D	В	В	D
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
Α	С	С	В	С	В	D	Α	D	D



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			of 3 when divided by 7.
Will 1	the remainder be	e if the square	of the number is divided
A.	1	В.	2
C.	3	D.	4
Q 2.	What is the diff	ference betwe	en the place value of 5 in
A.	49.95	В.	49.90
C.	49.50	D.	49
Q 3.	In the number	508742, what i	is the difference betweer
place	e value and face	value of 8?	
Α.	7991	В.	7992
C.	7993	D.	7994
Q 4.	How many prin	ne numbers ar	e there between 1 and 20
Α.	6	В.	7
C.	8	D.	9
		es a remainde	of 4 when divided by 6.
Q 5.	A number leave	.s a remainaci	
			uare of this number is div
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will t			uare of this number is div



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Q 6.	Convert 11/4 into a dec	imal.	
A.	2.225	В.	2.25
C.	2.5	D.	3.25
Q 7.	If 3/7 of a number is 12	, find	the number.
Α.	36	В.	28

А.	30	ь.	20
C.	21	D.	32

Q 8.	Add 1.75, 2.5, and 3.6.		
A.	7.85	В.	8.85
C.	8.75	D.	9.85

Q 9. A cyclist covered 27 km in 2.25 hours. What was the cyclist's speed in meters per second?

A.	3.33m/s	В.	12m/s
C.	3m/s	D.	3.75m/s

Q 10. If the ratio of the sides of two squares is 2:3, what is the ratio of their areas?

A.	2:3	В.	3:2
C.	4:9	D.	9:4



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0 1	1. A recipe requir	es the ratio of	sugar to flour to be 2:	5. If :
	lour is used, how		•	
Α.	60g	В.	70g	
C.	80g	D.	90g	
Q 1	2. The ratio of the	e length to the	breadth of a rectangle	is 4
the	perimeter of the	rectangle is 14	10 cm, what is its lengt	h?
A.	30cm	В.	40cm	
C.	50cm	D.	60cm	
Q 1	3. In a library, the	ratio of fictio	n books to non-fiction	boo
3:2.	If there are 180	fiction books,	now many total books	are
A.	360	В.	120	
C.	300	D.	420	
Q 1	4. A square and a	rectangle hav	e the same perimeter.	The
of t	he square is 10 cı	m, and the leng	gth of the rectangle is:	12 cr
Wh	at is the breadth	of the rectang	le?	
A.	7 cm	В.	8 cm	
C.	10 cm	D.	5 cm	
Q 1	5. The base of a t	riangle is 12 cr	n, and its height is 8 cm	n. W
its a	area?			
	24 cm ²	В.	42 cm ²	
A.				

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Q 16. A cylindrical water tank has a	a radius of 7 m and	a height of 10
m. What is its volume?		

A. 1,540 m³ **B.** 1,640 m³ **C.** 2,200 m³ **D.** 1,760 m³

Q 17. A rectangular swimming pool is 50 meters long and 25 meters wide. Find the cost of fencing it at ₹12 per meter.

A. ₹900 **B.** ₹1000 **C.** ₹1,500 **D.** ₹1,800

Q 18. The perimeter of a square is 64 cm. Find its area.

A. 64 cm² **B.** 8 cm² **C.** 256 cm² **D.** 400 cm²

Q 19. The sum of two numbers is 40. One number is x, and the other is 3x. What is x?

A. 10 **B.** 15 **C.** 15.55 **D.** 20

Q 20. The sum of a number and twice the same number is 45. What is the number?

A. 15 **B.** 20 **C.** 22.5 **D.** 30



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Q 2	1. If 4x-3=2x+5,	what is	?	
A.	1		В.	2
C.	3		D.	4
Q 22	2. A father's ago	e is three	times t	he age of his son. If the s
thei	ir ages is 48 yea	rs, find t	he age o	of the son.
A.	12		В.	15
C.	10		D.	18
Q 23	3. A student sco	ored -5 pe	oints on	the first quiz, -8 points o
seco	ond quiz, and 1	2 points	on the t	hird quiz. What is the stu
tota	ıl score?			
A.	-1		В.	-2
C.	-4		D.	0
Q 24	4. A bird is sittiı	ng at the	top of a	tree that is 20 meters ta
dive	es down 35 met	ers to ca	tch a wo	orm. Where is the bird re
to t	he ground after	r catching	g the wo	orm?
A.	15m	В.	- -15m	
C.	5m	D.	-5m	
Q 2!	5. A submarine	was at a	depth o	of -450m. It descends 125
furt	her. What is its	new dep	oth?	
A.	-325m	В.	-575r	n
C.	-475m	D.	-350r	n
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Q 26. The temperature in a city was -6?° in the morning. By
afternoon, the temperature rose by 14°C, and then dropped by 9°C $$
in the evening. What was the temperature in the evening?

- **A.** -2°C
- **B.** -1°C
- **C.** 1°C
- **D.** -3°C

Q 27. If a circle has a circumference of 44cm, what is its radius?

- **A.** 7cm
- **B.** 8cm
- **C.** 21cm
- **D.** 22cm

Q 28. How many lines of symmetry does a regular octagon have?

- **A.** 4
- **B.** 8
- **C.** 12
- **D.** 2

Q 29. A triangle has angles measuring 30° and 90°. What is the measure of the third angle?

- **A.** 60°
- **B.** 60°
- **C.** 30°
- **D.** 120°

Q 30. The area of a circle is 154cm². Find its radius.

- **A.** 7cm
- **B.** 8cm
- **C.** 10cm
- **D.** 11cm



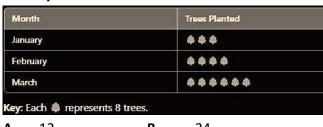
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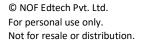
Q 31. Which of the following shapes has no line of symmetry?

- **A.** Rectangle
- **B.** Square
- **C.** Scalene triangle
- **D.** Equilateral triangle

Q 32. A pictograph shows the number of trees planted in different months: How many more trees were planted in March than January?



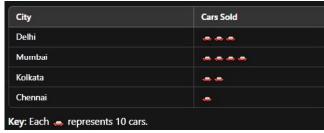
A. 12 **B.** 24 **C.** 32 **D.** 40





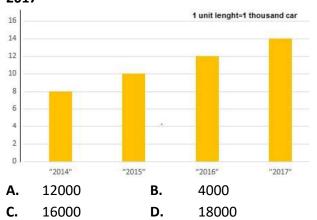
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Q 33. A company uses the following pictograph to represent the number of cars sold in 4 cities: Which of the following is incorrect about the data?



- **A.** Kolkata sold 30 cars.
- **B.** Kolkata sold 20 cars.
- **C.** Delhi sold 30 cars.
- **D.** Chennai sold 10 cars.

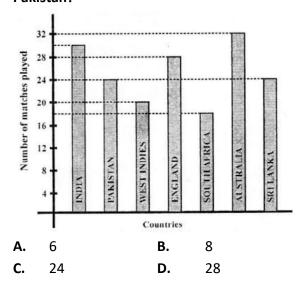
Q 34. The below graph shows the total car in Bangalore city from 2014 to 2017 what is the increase in total car from year 2015 to 2017





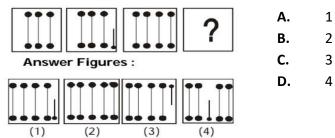
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Q 35. How many more matches were played by India than Pakistan?



Q 36. find the missing figure the series from the given answer figures.

Question Figures:





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Q 37. Choose the alternative which most closely resembles the mirror—image of the given combination.

DANIEL	
DYNIEL	
DANIEL	
DANIEL	
DANIEL	

A. AB. BC. C

D. D



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Q 38. What will be the water image of the given figure?

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI 3.

... WISSISSIЬЫ

MISSIPPISSI

- **A.** A
- **B.** B
- **C.** C
- **D.** D

Q 39. which answer figure will complete the pattern in the question figure?

Question Figure: Answer Figures:











A. a

B. b

d

D.

C. c

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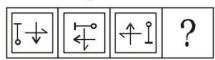


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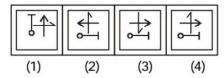
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Q 40. Find the missing figure the series from the given answer figures.

Question Figures:



Answer Figures:



A. 1

B. 2

C. 3

D. 4

CHAMPIONS

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ANSWER KEY

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
В	Α	В	С	С	В	В	Α	Α	С
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
С	В	С	В	С	Α	D	С	В	Α
21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
D	A	A	В	В	В	A	В	Α	Α
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
С	В	Α	В	Α	Α	В	Α	С	D



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Q 1.	Convert 2949 to Roma	n nume	erals.
A.	MMCMXLV	В.	MMCMXLIX
C.	MMDCCCCXLIX	D.	MMCMXLIV
Q 2.	What is the HCF of 48,	72 , and	d 120?
A.	8	В.	12
C.	24	D.	36
Q 3.	What is the sum of the	e place	values of the digit 5 in the
num	ber 65235?		
A.	5050	В.	5005
C.	5500	D.	505
Q 4.	A number leaves a ren	naindei	of 3 when divided by 7. What
will t	the remainder be when	the cul	pe of this number is divided by
7?			
A.	2	В.	4
C.	6	D.	8
Q 5.	The first three commo	n multi	ples of 4 and 6 are:
A.	12, 24, 36	В.	24, 48, 72
C.	6, 12, 18	D	12, 36, 48
•	0, 12, 18	υ.	12, 30, 40

CHAMPIONS LEAGUE

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Q 6.	Convert 9/16 to a decin	nal.	
A.	0.625	B.	0.5625
C.	0.75	D.	0.85
Q 7.	Multiply 3.25 and 0.4.		
A.	1.2	В.	1.3
C.	1.45	D.	1.25

Q 8. Two containers contain water in the ratio 7:9. The first container holds 17.5 liters of water. How much water does the second container hold?

A. 22.5liters
 B. 24.5liters
 C. 27liters
 D. 30liters

Q 9. A piece of cloth 8.4m long is cut into pieces of 0.7m each. How many pieces are there?

A. 12 **B.** 10 **C.** 11 **D.** 14

Q 10. The monthly income of A, B, and C is in the ratio 4:5:6. If C's monthly income is ₹54,000, what is A's monthly income?

A.₹36,000B.₹30,000C.₹40,000D.₹45,000



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Q 11. If 12 men can complete a task in 15 days, how many days will it take for 10 men to complete the same task, assuming they work at the same rate?

A. 12 daysB. 15 daysC. 18 daysD. 21 days

Q 12. The ratio of the speeds of two cars is 3:4. If the first car travels 240 km, how far does the second car travel in the same time?

A. 300 kmB. 320 kmC. 400 kmD. 180 km

Q 13. A and B can complete a task in 20 days and 30 days, respectively. If they work together, how many days will they take to finish the task?

A. 12 daysB. 15 daysC. 10 daysD. 25 days

Q 14. A cuboid has a length of 6 cm, breadth of 4 cm, and height of 3 cm. What is its surface area?

A. 72 cm² **B.** 94 cm² **C.** 108 cm² **D.** 100 cm²



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Q 15. The area of a rectangle is 96 cm², and its breadth is 8 cm
What is its length?

A. 10 cmB. 12 cmC. 14 cmD. 16 cm

Q 16. A cube has a side length of 5 cm. What is its volume?

A. 100cm³ **B.** 125cm³ **C.** 150cm³ **D.** 175cm³

Q 17. The area of a rectangular garden is 300 m², and its breadth is 12 m. Find its length.

A. 12.5 m **B.** 15 m **C.** 25 m **D.** 30 m

Q 18. A rectangular park has a length of 80 meters and a breadth of 60 meters. Find the total distance covered if a person jogs around it twice.

A. 200 m **B.** 280 m **C.** 560 m **D.** 800 m

Q 19. Solve for x: 3x - 7 = 11.

A. 4 **B.** 6 **C.** 3 **D.** 2



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Q 20. The perimeter of a rectangle is 72 cm. Its length is 4 cm more
than twice its breadth. Write and solve the equation to find the
breadth.

- **A.** 2(2a+4)+2a=72
- **B.** 2(a+2a+4)=72
- **C.** 2(2a+4+a)=72
- **D.** 2(a+4)+2a=72

Q 21. If x + 2y = 10 and 3x - y = 9, find x and y.

- **A.** x=5, y=5
- **B.** x=3,y=4
- **C.** x=4,y=3
- **D.** x=6,y=2

Q 22. The sum of twice a number and 9 is 19. What is the number?

A. 7

B. 6

C. 5

D. 4

Q 23. The product of two integers is -48. One of the integers is 8. What is the other integer?

A. -6

B. -8

C. 6

D. 8

Q 24. A shopkeeper has 30kg of a specific product in his stock after selling 50kg. How much stock did he originally have?

A. 20kg

B. 50kg

C. 70kg

D. 80kg

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Q 25. A hiker ascended	d 250m in the mornin	g and descended	340m
in the afternoon. Wha	t is the hiker's net ch	ange in altitude?	

A. -90m **B.** -110m **C.** -70m **D.** 90m

Q 26. A bank account has a balance of -200 dollars. If 150 dollars are deposited into the account, what is the new balance?

A. -350 dollars
 B. -50 dollars
 C. 350 dollars
 D. -150 dollars

Q 27. A central angle in a circle measures 120°, and the radius is 21cm. Find the length of the arc subtended by the angle.

A. 44cm **B.** 88cm **C.** 22cm **D.** 77cm

Q 28. Which of the following has rotational symmetry of order 2?

A. Equilateral triangleB. RectangleC. RhombusD. Circle

Q 29. A square and a circle have the same perimeter. If the side of the square is 11cm, what is the radius of the circle?

A. 7cm **B.** 14cm **C.** 28cm **D.** 21cm



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Q 30. A triangle has sides of length 13cm,14cm, and 15cm. What type of triangle is it?

A. ScaleneB. EquilateralC. IsoscelesD. Right-angled

Q 31. A line segment passes through the center of a circle and divides it into two equal halves. What is this line segment called?

A. RadiusB. DiameterC. ChordD. Tangent

Q 32. A school recorded the number of medals won by its students in two different years:How many more gold medals were won in 2023 compared to 2022?



A. 6 **B.** 9 **C.** 12 **D.** 15



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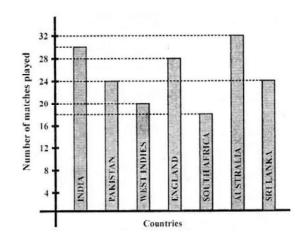
Q 33. A village represents the daily water consumption (in liters) using the following pictograph: What is the average water consumption per household?

Household	Water Consumed
Household 1	
Household 2	••
Household 3	****
Household 4	TO THE RESERVE OF THE PERSON O

- **A.** 62.5 liters
- **C.** 50 liters
- **B.** 25 liters
- **D.** 75 liters

Q 34. Ratio of the number of matches played by India to the number of matches played by Sri Lanka is

- **A.** 4:5
- **B.** 5:6
- **C.** 5:4
- **D.** 7:6





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n	35.	The	mean	of firs	t 6	odd	natural	numbers	s is?
_	"	1116	IIICali	OI III 3	LU	ouu	Hatulai	HUHHDEL	3 IJ:

A. 5

B. 5.5

C. 6

D. 6.5

Q 36. A chord of a circle is 24cm long, and the perpendicular distance from the center of the circle to the chord is 5cm. Find the radius of the circle.

A. 13cm

B. 12cm

C. 10cm

D. 15cm

Q 37. find the missing figure the series from the given answer figures.

Question Figures:

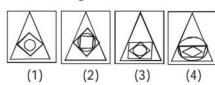








Answer Figures:



A. 1

3

B. 2

4

C.

D.



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Q 38. What will be the water image of the given figure?

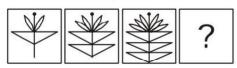
NAME

A.	NAWE
В.	NAME
C.	NAWE
D.	EWY

- **A.** A
- **B.** B
- **C.** C
- **D.** D

Q 39. Choose the correct alternative from the given ones that will complete the series.

Question Figures:



B. 2

A.

Answer Figures:

- (1) (2) (3) (4)
- **C.** 3

1

D. 4



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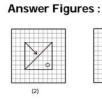
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Q 40. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?

Question Figure:











A.

1

B. 2

C. 3

D. 4

------•



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ANSWER KEY

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
В	С	В	С	Α	В	В	Α	Α	Α
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
С	В	A	C	В	В	С	C	В	С
21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
С	C	A	D	A	В	А	В	Α	Α
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
В	Α	Α	С	С	Α	В	В	Α	В



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Q 1.	The sum of two	odd numbers	and one even number
A.	Odd	В.	Even
C.	Prime	D.	Compsite
Q 2.	A school has 120	students. Th	ey are to be divided int
such	that each group I	nas an equal	number of students. Ho
ways	s can this be done	?	
A.	6	В.	8
C.	12	D.	16
Q 3.	What is XLVIII +	XXIX - XV in F	toman numerals?
Α.	LXII	В.	LXXIV
C.	LXXVII	D.	XLII
Q 4.	A number has ex	cactly 8 factor	rs. Which of the followi
be th	ne number?		
Α.	24	В.	30
C.	36	D.	60
Q 5.	A baker divides 2	215 cookies e	qually among 7 boxes.
man	y cookies are left	over?	
Α.	5	В.	2
		D.	4



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Q 6.	Which fraction is equivalent to 0.375?								
A.	3/8	B.	7/16						
C.	15/32	D.	5/16						
Q 7.	Simplify: 5/6-3/4								
•	Simplify: 5/6-3/4 1/12	В.	1/4						
•	1/12	В. D.	1/4 1/3						

Q 8. A bakery uses 3.25kg of flour for a batch of 15 loaves of bread. How much flour is required for 45 loaves?

A. 7.75kgB. 8.25kgC. 9.75kgD. 10.25kg

Q 9. A farmer has a rectangular field of length 120m and width 7.5m. He wants to divide the field into square plots such that each plot has an area of 25m². How many plots will the farmer get?

A. 32 **B.** 36 **C.** 48 **D.** 64

Q 10. A, B, and C divide a sum of money in the ratio 5:3:2. If B gets ₹1,200, how much does A get?

A. ₹2,000 **B.** ₹1,800 **C.** ₹2,500 **D.** ₹3,000



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Q 11.	. Two numbers are in the ratio 7:9. If their HCF is 8,	what are
the n	numbers?	

A. 28 and 36
B. 56 and 72
C. 21 and 27
D. 14 and 18

Q 12. The ratio of red to blue marbles in a bag is 5:6. If there are 55 red marbles, how many blue marbles are there?

A. 60 **B.** 66 **C.** 72 **D.** 75

Q 13. A mixture of acid and water is in the ratio 3:2. If there are 18 liters of acid, how much water is in the mixture?

A. 9 liters
 B. 10 liters
 C. 12 liters
 D. 15 liters

Q 14. The length, breadth, and height of a cuboid are 4 cm, 3 cm, and 2 cm, respectively. What is its surface area?

A. 24cm² **B.** 52cm² **C.** 48cm² **D.** 64cm²

Q 15. A rectangular field has a length of 80 m and a breadth of 60 m. What is the cost of fencing the field at ₹10 per meter?

A. ₹1,200 **B.** ₹1,400 **C.** ₹2,800 **D.** ₹4,400



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Q 16.	The	diameter	of a	sphere	is 14	cm.	What	is	its	surface	area?
-------	-----	----------	------	--------	-------	-----	------	----	-----	---------	-------

A. 462cm² **B.** 616cm² **C.** 308cm² **D.** 600cm²

Q 17. On a wall of dimensions 10.5 m long and 8.5 m wide, a square shaped wall poster is stuck at the centre whose side measure is 2.5 m. If the remaining part of the wall is to be painted with pink colour costing Rs. 12 per sq. m, how much does it cost?

A. Rs. 89.25B. Rs. 996C. Rs. 830D. Rs. 12

Q 18. In a square shaped park, whose side measures 28 m, a rectangular pond is located at the centre with dimensions 3 m and 2 m. What is the area of the park excluding the pond?

A. 784 sq. m **B.** 6 sq. m **C.** 778 sq. m **D.** 708 sq. m

Q 19. The product of two consecutive integers is 56. Find the integers.

A. 7,8 **B.** 8,9 **C.** 4,5 **D.** 2,3

Q 20. If 3x+2y=16 and x-y=2, find x and y.

A. x=4,y=2 **B.** x=5,y=3 **C.** x=6,y=4 **D.** x=2,y=0



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Q 21	L. Write an equation	for the stat	ement: Four time	es a number
deci	reased by 7 equals 2	1.		
A.	4x-7=21	В.	4x+7=21	
C.	4x-7=-21	D.	4x+7=-21	
Q 22	2. Find the value of x	if x²-9=0.		
A.	3	В.	-3	
C.	Both A and B	D.	0	
Q 23	3. A teacher awarded	d +5 points f	for each correct a	nswer and -2
	nts for each incorrec	-		
corr	ectly and 6 question	s incorrectl	y. What is the stu	ıdent's total
scor	-		•	
A.	32	В.	38	
C.	44	D.	48	
Q 24	I. The temperature v	vas -9°C at ı	night and increase	ed by 13°C
duri	ng the day. What wa	as the temp	erature during th	e day?
A.	4°C	В.	6°C	
C.	5°C	D.	-4°C	
Q 25	5. A diver descends 1	.8m and the	en ascends 25m. V	What is his final
posi	tion relative to the	surface?		
A.	7m	В.	-7m	
C.	43m	D.	-43m	
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Q 26. Solve: (-24)÷(+6)+(-8)÷(-2)+(+3)

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A.	3		В.	6
C.	-9		D.	-6
Q 27	. The radius of a ci	rcle is 7	7cm. W	hat is its circumference?
A.	22cm		В.	44cm
C.	14cm		D.	38.5cm
Q 28	. Find the area of a	circle	with a	diameter of 14cm.
A.	77cm ²		В.	154cm ²
C.	38.5cm ²		D.	616cm ²
Q 29	. A semicircle has a	a radiu	s of 14c	m. Find its perimeter.
A.	22cm		В.	36cm
C.	64cm		D.	72cm
Q 30	. How many lines o	of symi	metry d	oes a square have?
A.	2	В.	4	
C.	8	D.	1	

Q 31. What is the measure of each interior angle of a regular

A. 60° **B.** 120° **C.** 90° **D.** 180°

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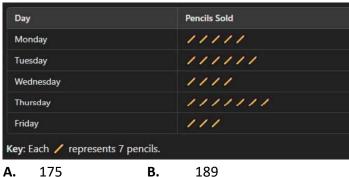
hexagon?



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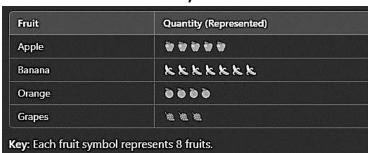
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Q 32. The following pictograph shows the number of pencils sold by a stationery shop in a week: How many pencils were sold in total?



C. 196 **D.** 212

Q 33. A survey shows the number of different fruits consumed by students in a week:How many bananas were consumed?



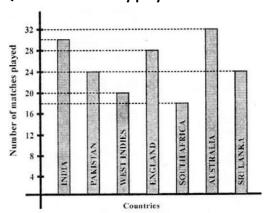
A. 40 **B.** 42 **C.** 56 **D.** 63



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Q 34. Which country played a maximum number of matches?



- A. India
- B. England
- C. Pakistan
- D. Australia

Q 35. The median of the numbers 4, 4, 7, 5, 7, 6, 1, 3, 11 is

A. 7

B. 5

C. 6

D. 4

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Q 36. What will be the water image of the given figure?

CAT2015

CAT2015

CAT2012

CAL2012

CAL2012

V. C

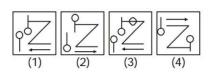
B. B

CAL2012

Q 37. What is the mirror image of the following figure? The mirror may be represented by a line XY.

Question Figure:

Answer Figures:



A. 1C. 3

- **B.** 2
- **D.** 4

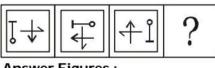


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Q 38. find the missing figure the series from the given answer figures.

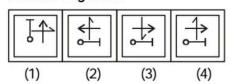
Question Figures:



A. 1

2 В.

Answer Figures:



C. 3

D. 4

Q 39. If CAT is written as XZG, how is DOG written?

WLT A.

XLT В.

C. MLO D. WNI

Q 40. Choose the correct alternative from the given ones that will complete the series.

Question Figures:











A. 1

2

3

Answer Figures:





(2)





C.

В.

4 D.



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ANSWER KEY

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
В	В	Α	Α	Α	А	Α	С	В	Α
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
В	В	С	В	С	В	В	C	Α	Α
21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
Α	C	В	A	A	Α	В	В	D	В
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
В	Α	С	D	В	С	С	D	Α	В



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The registrations for the new session (2025-26) ROUND 1 will begin from 1st April 2025.

All the students who will register in the month of April will get a **welcome badge from NOF**.





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