NTSE CLASS VIII MAT QUESTIONS



NTSE | CBSE | State Boards | Class 8th - 10th

1. The length of two sides of a triangle are 12 cm and 13 cm, then the third side will be

- (a) 1 cm
- (b) 25 cm
- (c) More than 25 cm
- (d) More than 1 cm but less than 25 cm
- Ans. (d) More than 1 cm but less than 25 cm
- Sol. Difference of two sides < Third side < Sum of two sides
 - 13-12 < Third side < 13+12

 $1\ \text{cm} < \text{Third}\ \text{side} < 25\ \text{cm}$

- 2. Three angles of a quadrilateral are of magnitudes 80°, 95° and 120°. The magnitude of the fourth angle is :
- (a) 80° (b) 75° (c) 70° (d) 65° Ans. (d) 65° Sol. $360^{\circ} - (80 + 95^{\circ} + 120^{\circ})$ $360 - 295 = 65^{\circ}$.
- 3. The length of a side of rhombus is 5 cm and one of its diagonals is of lengths 8 cm. The length of the other diagonal is :

(b) 7 cm

(d) 8 cm

- (a) 5 cm
- (c) 6 cm
- Ans. (c) 6 cm

 $5^{2} = 4^{2} + x^{2}$ $25 - 16 = x^{2}$ $x^{2} = 9$ x = 3Diagonal = 2x = 6cm.







4. In the figure, $\angle PXZ = \angle XYZ$, $\angle XPZ = \angle XZY$. Then triangles are congruent by the postulate Z (a) SSS (b) SAS (c) ASA (d) RHS Ans. (c) ASA Sol. Here two angles are equal, and thus the third angle is also equal (By Angle sum Property of a triangle) and one side is common, then by ASA Congruency criterion, Triangles are Congruent 5. **RBUKAE** (a) #70892 (b) 670892 (c) 670982 (d) 607892 Ans. (b) 670892 Sol. We know that, in English alphabets A, E, I, O, U letters are vowels and remaining letters are consonants. For condition (ii) Κ R В U А E L L T T 8 9 2 6 7 0 This question does not follow any condition. If 'white' is called 'blue', 'blue' is called 'red', 'red' is called 'yellow', 'yellow' is called 'green', 'green' is 6. called 'black' is called 'violet' and 'violate' is called 'orange', then what would be the colour of human blood. (b) Green (c) Yellow (d) Violet (a) Red Ans. (c) Yellow Sol. We know that, the colour of the human blood is 'red' and given that 'red' is called 'yellow'. So, the colour of human blood will be yellow. 7. If 'Parrot' is known as 'Peacock', 'Peacock' is known as 'Swallow', 'Swallow' is known 'Pigeon' and 'Pigeon' is known as 'Sparrow', then what would be the name of the Indian National Bird? (a) Parrot (b) Swallow (c) Peacock (d) Pigeon (d) None of these Ans. (b) Swallow Sol. We know that, Peacock is the Indian National Bird but here Peacock is known as Swallow. So, the answer is Swallow.





8.	January 1, 2007 was Monday. What day of the week lies on Jan. 1, 2008?							
	(a) Monday	(b) Tuesday	(c) Wednesday	(d) Sunday				
Ans.	(b) Tuesday							
Sol.	The year 2007 is an ordi	•••	odd day.					
	1 st day of the year 2007	•						
	• •	1 st day of the year 2008 will be 1 day beyond Monday.						
	Hence, it will be Tuesda	y.						
9.	How many meaning full English words can be formed using the second, third, fifth and seventh letters of the word 'KITCHEN' using each letter once in each word?							
	(a) Only one	(b) Two	(c) Three	(d) Four				
	(e) None of these							
Ans.								
Sol.	Second, third, fifth and s	seventh letters of the w	ord are I, T, H and N res	spectively.				
	The words formed from the letters = Hint and Thin Hence, two words can be formed from the given letters above.							
	Hence, the correct answer is option B.							
10.	If the letters in the word	'CREATION' are rear	anged as they appear in	the English alphabet then the position				
	of how many letters will remain unchanged after the rearrangement?							
	(a) Two	(b) One	(c) Three	(d) None				
	(e) Four							
Ans.	(b) One							
Sol.	The given letter							
	CREATION							
	After arranging the lette	rs of the given word as	they appear in the Engl	ish alphabet, we have:				
	ACEINORT							
	Only 'E' remains at the	-	rrangement					
	Hence, option 'B' is the Correct choice.							
11.	Given interchanges: Sig	Given interchanges: Signs + and – and number 4 and 8 which one of the four equations would be correct?						
	(a) $4 \div 8 - 12 = 16$	(b) $4 - 8 + 12 = 0$	(c) $8 \div 4 - 12 = 24$	(d) $8 - 4 \div 12 = 8$				
Ans.	(b) $4 - 8 + 12 = 0$							
Sol.	On interchanging + and – and 4 and 8 in (b), we get the equation as: 8 + 4 - 12 = 0 or $12 - 12 = 0$ or $0 = 0$, which is true							

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- 12. Pointing to a photograph of a boy Suresh said, "He is the son of the only son of my mother." How is Suresh related to that boy?
 - (a) Brother

- (c) Cousin
- (d) Father

(d) Data Inadequate

Ans. (d) Father



- 13. If $P \div R + S + Q$, then which of the following is true?
 - (a) P is daughter of Q (b) Q is aunt of P

(b) Uncle

- (c) P is aunt of Q
- Ans. P is aunt of Q Sol.

(d) P is mother of Q

- R _____
 - Father's sister (Aunt)
- 14. Pointing to a woman, Ram said, "She is the only daughter of my wife's grandfather's only child." How is the woman related to Ram?

(c) Sister

- (a) Wife (b) Sister-in-Law
- (e) None of these
- Ans. (a) Wife
- Sol. Wife's grandfather's only child means wife's parents and only daughter means wife herself so that woman is a wife of Ram.





15. Ans. Sol.	Who one is probably Na (a) S (b) P	urse in a family. (b) P	(c) R	(d) T			
501.		Contractor 🗲 🗌	$I = S \rightarrow House$	Wife			
	Doctor $\leftarrow Q = P \rightarrow Nurse$						
	$(T - R) \longrightarrow Students$						
16.	6. Who many grandchildren are there in a group.						
101	(a) 0	(b) 1	(c) 2	(d) 3			
Ans.	(c) 2						
Sol.	Q is the father of T, U is grandfather of R and there are two married couples so U must be father of Q and also a grandfather of R so there are two grandchildren (R and T) in a family.						
17.	: trail :: grain : g	prail					
	(a) Train	(b) Path	(c) Wheat	(d) Holy			
Ans.	(a) Train						
Sol.	Train becomes trail who an "l."	en the "n" is replaced by	y an "l," and grain becor	mes grail when the "n" is replaced by			
18.	conjugate: pair :: partiti	on :		0			
10.	(a) Divide	(b) Consecrate	(c) Parade	(d) Squelch			
Ans.	(a) Divide						
Sol.	To conjugate means to	o conjugate means to pair and to partition means to divide.					
19.	(AGE) : (ZHD) :: (ASH	K) :					
	(a) ATJ	(b) ZTJ	(c) JTZ	(d) ZTL			
Ans.	(b) ZTJ						
Sol.	Pattern						
	-1, +1, -1						
	A - 1 = Z						
	S + 1 = T $K - 1 = J$						
	$\mathbf{X} = \mathbf{I} = \mathbf{J}$						









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23. Choose the box that is similar to the box formed from the given sheet of paper (X)?



Ans. (d) All of these

- Sol. Possible cube are made by any three alternate face given in the NET of cube and 2 shaded portion are opposite to one another so only one will show at a time then all are right options.
- 24. Which letter replaces the question mark?

24.	vv 1110	in icuci icpi	aces	ine question mark:			
	N	252	R				
	т	500	Y				
	Υ	400	Р				
	к	132	L				
	G	182	?	-(3)-			
	(a) P			(b) Q	(c) R	(d) Z	
Ans.	(d) Z						
Sol.	In ea	ch row mult	iply 1	the numerical values	of the left and r	ight hand letters, putting the	result in the centre.
	7×2	26 = 182					
25.	Whic	ch one will re	eplac	e the question mark?			
	(a) 1			(b) 26	(c) 35	(d) 42	
Ans.	(b) 2						
Sol.		$+ (4)^2 = 20$					
	$(3)^{2}$	$+(9)^2=90$					
	$(1)^2$	$+(5)^2 = 26$					
						Vipinomics EPISODE -	





26. Ans. Sol.	s. (c) South-West				s with respect to S?		
501.				I - S			
	Locations of the given villages can be shown according to the figure. $\mathbf{P} = \mathbf{Q} \qquad \mathbf{W} = \mathbf{W} = \mathbf{E}$						
	Clearly, R lies to the South-West of S						
27.	Find the odd one out				Ū		
	(a) Crusade	(b) Campaign	(c) Expedition	(d) Cruise			
Ans.	(d) Cruise						
Sol.	Cruise = a sea voyage f	or pleasure.					
	All other words are related to 'journey on land, sea with an aim						
20	Find the odd one out						
28.	(a) Flower : Petal	(b) Circle : Arc	(c) Cover : Page	(d) Chair : Leg			
Ans	(c) Cover : Page		(c) cover . I age	(u) Chan : Leg			
	In all other pairs, second is a part of the first.						
501.	In an other pairs, second is a part of the first.						
29.	Choose the number pair/group which is different from others?						
27.	(a) 7: 22	(b) 12 : 37	(c) 8 : 33	(d) 15 : 46			
Ans.	(c) 8 : 33						
Sol.							
	1 / 1						
30.	Choose the number whi	ch is different from oth	ers in the group?	•			
	(a) 64	(b) 162	(c) 27	(d) 144			
Ans.	(d) 144						
Sol	Fach of the numbers ex	cept 144 is a perfect cu	he				

Sol. Each of the numbers except 144, is a perfect cube.

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