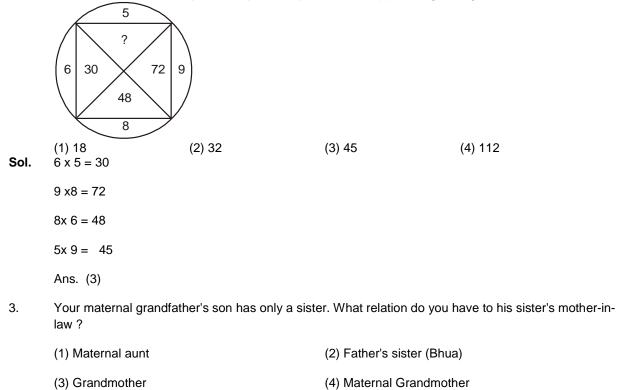
STATE TALENT SEARCH EXAMINATION-2018-19 MENTAL ABILITY TEST (MAT) PAPER & SOLUTION

SCHOLASTIC APTITUDE TEST (SAT) HINTS & SOLUTIONS

- If '+' means 'x', '-', means'+', '÷' means '-' and 'x' means '÷' then what will be the value of 9+3÷4-8x2 ?

 (1) 21
 (2) -13
 (3) 31
 (4) 27
- **Sol.** According to question,
 - $= 9x3-4+8 \div 2$
 - =27-4+4
 - =27
 - Ans. (4)
- 2. What will be the number put at the place of question mark (?) in the given figure ?



Sol.

Ans. (3)

Resonance Educating for better tomorrow

4. Direction: Answer the following question which is based on the letter/number sequence:

E K M 3 P 5 R T V Z 9D I F Q X 4 6 G H J 2 8 W



Corporate Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)- 324005 Head Office: Plot No. A-51 [A], IPIA, Near Resonance CG Tower Contact : 0744-6635569

Website :www.pccp.resonance.ac.in | E-mail : pccp@resonance.ac.in

八民	esonance cating for better tomorrow		RCH EXAMINATION-201	8-19, 18.11.2018	
		following letters/numbers is e the ninth letter/number from the	•	ween the sixth letter/number fi	rom the
	(1) Z	(2) 9	(3) D	(4) I	
Sol.					
	Ans. (2)				
5.	lf 29 th day of	any month was Tuesday, the	n which day was on 3rd	day of the same month?	
Sol.	(1) Wedneso If 29th day is	day (2) Thursday s Tuesday, then 3rd day must	(3) Friday be Thursday	(4) Tuesday	
	Ans. (2)				
6.	-	is called darkness, darkness in and green is called yellow the			red is
	(1) red	(2) white	(3) yellow	(4) blue	
Sol.					
	Ans. (4)				
7.		code 'DINE' is written as '1537 the same code?	and 'WORTH' is writte	n as \$#96@. Then how will 'W	/ITHER'
	(1) \$567@9	(2) \$56@79	(3) \$5679@	(4) \$56@71	
Sol.	DINE	WORTH			
	1537	\$#96@			
	WT	THER			
	\$56	6@79			
	Ans. (2)				
8.	In a certain o will be writte	code 'APPLE' is written as 'PE n ?	EALP' and 'PHONE' is w	rritten as 'HPENO'. Then how	'HINDI'
	(1) IDNIH	(2) IHIDN	(3) IHNID	(4) IHIND	
Sol.	APPLE ♠♠ ▶♠◀	PHONE A RAA	E		
	XX	X X	X.		
	PÀÉLP	HPENC	D		



				ALENT SEA	ARCH EXAM	INATION-2	018-19, 1	8.11.2018	
	HINDI HIDN								
	Ans. (2)								
9.	Which ye	ar of the fo	llowing hav	ve the sam	e calendar	as that of y	ear 2009	?	
	(1) 2013		(2) 207	14	(3)	2015		(4) 2016	
Sol.									
					Leap year				
year		2009	2010	2011	2012	2013	2014	2015	
Odd da	ays	1	1	1	2	1	1		
		ove	T rall zero od	ld davs					
	Ans. (3)								
10.		ne alternati	ve all other	given alte	rnatives are	e alike in a	certain w	ay. The odd	alternative is
	(1) (9,8,4		(2) (5,			(7,24,25)		(4) (3,4,5)	
Sol.	Except (9	9,8,41)							
	all are Py	rthagorean	triplets						
	Ans. (1)								
11.	What is t	he maximu	m number	of rectange	es in the fol	owing figu	re?		
					$\frac{1}{2}$				
	(1) 6		(2) 7		(3)	3		(4) 9	

Sol.



 Corporate Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)- 324005

 Head Office: Plot No. A-51 [A], IPIA, Near Resonance CG Tower Contact : 0744-6635569

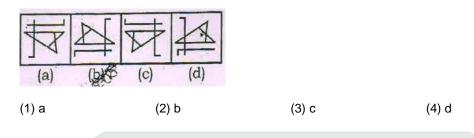
 Website :www.pccp.resonance.ac.in | E-mail : pccp@resonance.ac.in

 Toll Free : 1800 258 5555 | CIN: U80302RJ2007PLC024029

STATE TALENT SEARCH EXAMINATION-2018-19, |18.11.2018

Ans. (4)

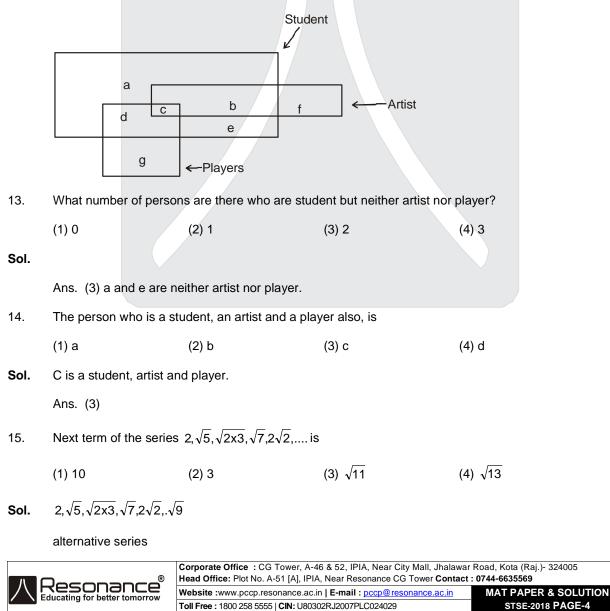
12. One figure out of the four given figures (a), (b), (c), (d) does not correlate with the rest of the figures. That odd figure is



Sol.

Ans. (4)

Directions (13-14): Persons a, b, c, d, e,f, g are shown in Venn diagram according to their work. Study the Venn diagram and answer the following questions:



八晶		STATE TALENT SEAR	CH EXAMINATION-2018-1	19, 18.11.2018
	2, $\sqrt{2x3}$, $\sqrt{2x4}$			
	$\sqrt{5}$, $\sqrt{7}$ $\sqrt{9}$			
	Ans. (2)			
16.	In a certain code 'DA code 'ZEAL' ?	TE' is a written as '23-2	26-7-22' and 'SUN' is writ	tten as '8-6-13'. Then how will you
	(1) 1-22-26-15	(2) 26-5-1-12	(3) 26-5-1-13	(4) 15-26-22-1
Sol.	sum = 27			
	Ans. (1)			
17.	Which alternative sh	ows the perfect relation	between $2^6 4^3$?	
	(1) >	(2) =	(3) <	(4) ≈
Sol.				
	Ans. (2)			
18	The fist term in the q correct alternative fro		o the second term based	I on their classification. Find the
	DOG: BITCH: :	.:		
	(1) Woman:Lady		(2) Lion: Lioness	
	(3) Buffalo: Cow		(4) Man: Boy.	
Sol.				
	Ans. (2)			
19.	Except one alternativ	ve all other alternative a	re alike in a certain way.	. The odd alternative is
	(1) 63	(2) 217	(3) 7	(4) 124
Sol.				
	Ans. (2)			
20.	What is the next tern	n in the series 1,2,3,5,8	,13,?	
	(1) 19	(2) 20	(3) 21	(4) 22
Sol.	sum of 2 terms			
	Ans. (3)			
	Directions (21-24):	Find the missing numbe	er/term in the following se	eries:
21.	1,16, 81,256, ?			

Head Office: Plot No. A-51 [A], IPIA, Near Resonance CG Tower Contact : 0744-6635569

Website :www.pccp.resonance.ac.in | E-mail : pccp@resonance.ac.in

Toll Free : 1800 258 5555 | CIN: U80302RJ2007PLC024029

MAT PAPER & SOLUTION

STSE-2018 PAGE-5

八星		STATE TALENT SE	ARCH EXAMINATION-201	8-19, 18.11.2018	
	(1) 389	(2) 625	(3) 483	(4) 527	
Sol.	4,2 ⁴ ,3 ⁴ ,4 ⁴ ,5 ⁴				
	Ans. (2)				
22.	64: ? : : 144	:13			
	(1) 8	(2) 9	(3) 16	(4) 7	
Sol.	8 ² :9::12 ² :13				
	Ans. (2)				
23.	MQ : ? : : C0	Э : КО			
	(1) UZ	(2) UX	(3) UY	(4) UW	
Sol.	MQ: ? :: CG	:КО			
	Ans. (3)				
24.	FED : IHG :	: TSR : ?			
	(1) UWV	(2) UVW	(3) UTS	(4) WVU	
Sol.					
	Ans. (4)				
25.	Choose the	odd one out from the given a	Iternatives:		
	(1) Green	(2) Yellow	(3) Violet	(4) Brown	
Sol.	VIBGYOR				
	Ans. (4)				
26.	lf (x-2) is a f	actor of the equation x ³ -6x ² (p) 11x(q)6 = 12 then sign	in place of p and q is	
	(1) +,+	(2) +,-	(3) -,+	(4) -,-	
Sol.					

Ans. (1)

Direction (27-30) : In questions 27 to 30 there are two groups of figures, one group contains problemfigures while the other has answer-figures. Problem-figures are arranged one after other in an order. You have to select an answer-figure which can be added in sequence in the problem figures. Choose the correct answer-figure.

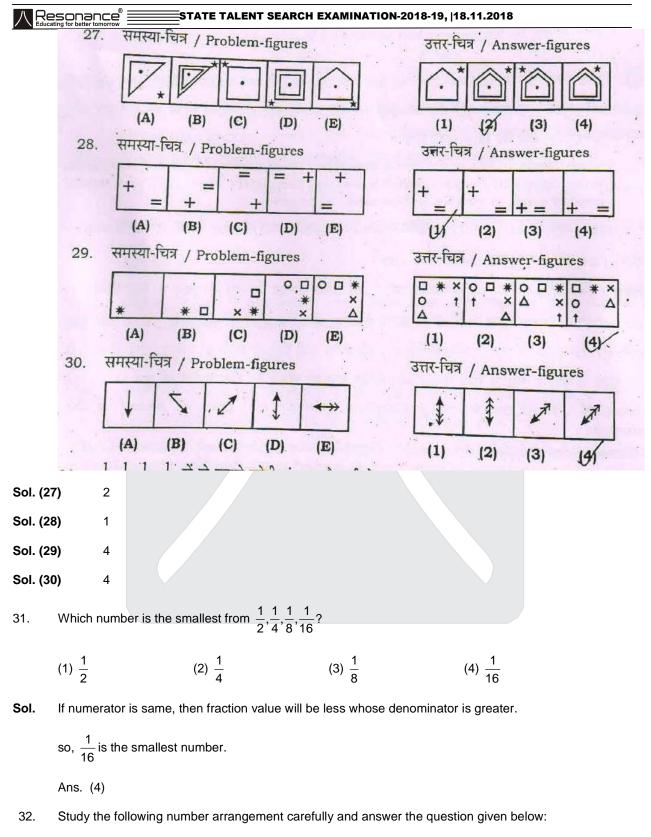


 Corporate Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)- 324005

 Head Office: Plot No. A-51 [A], IPIA, Near Resonance CG Tower Contact : 0744-6635569

 Website :www.pccp.resonance.ac.in | E-mail : pccp@resonance.ac.in
 MAT PAPER & SOLUTION

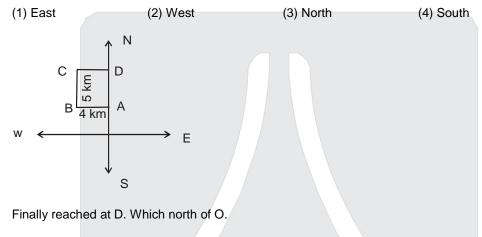
 Toll Free : 1800 258 5555 | CIN: U80302RJ2007PLC024029
 STSE-2018 PAGE-6



6,9,6,9,9,6,9,7,6,9,7,9,6,9,9,7,7,9,6,6,7



八昆	Resonance STATE TALENT SEARCH EXAMINATION-2018-19, 18.11.2018					
	How many 6's	are sandwiched betweer	ר 9's?			
	(1) 2	(2) 3	(3) 4	(4) 5		
Sol.	ol. We are to find 969 set					
	3 set					
	Ans. (2)					
33.				and then again turns right m. In which direction would		



Ans. (3)

Sol.

Directions(34-35) : Read the following statement carefully and give the answer to the questions:

Asha and Dara are the children of Mr. Dangi. Asha marries Suresh Chopra and Sunil, Sanjay and Sonu are sons of them. Sunil is married to the eldest daughter of Mr. and Mrs. Roy. Bindu is younger to Rita and older than Sita and all are daughters of Mr. and Mrs. Roy. Gita is Sunil's daughter.

34. What is the surname of Sanjay?

(1) Dangi	(2) Roy	(3) Chopra	(4) Daga
(I) Dangi	(2) 1(0)	(3) 010010	(+) Daya

Sol. Sinch Asha marries to Suresh Chopra and their son are Sonu, Sanjay and Sunil

Hence title will be Chopra

Ans. (3)

35. Sunil is married with

(1) Bindu (2) Geeta (3) Rita (4) Sita

Sol. Mr. and Mrs. Roy has 3 daughter such that

Rita---Bindu----Sita

elderest daughter is Ritu who marries Sunil

Ans. (3)



 Corporate Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)- 324005

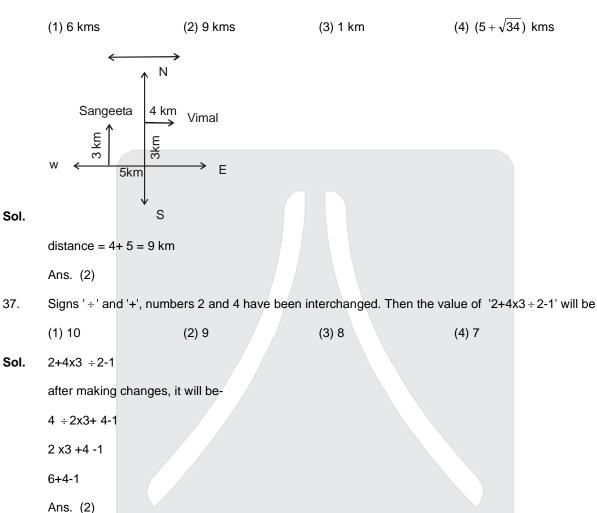
 Head Office: Plot No. A-51 [A], IPIA, Near Resonance CG Tower Contact : 0744-6635569

 Website :www.pccp.resonance.ac.in | E-mail : pccp@resonance.ac.in

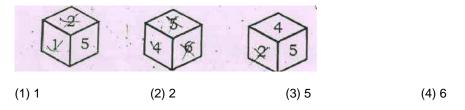
 Toll Free : 1800 258 5555 | CIN: U80302RJ2007PLC024029

Resonance STATE TALENT SEARCH EXAMINATION-2018-19, 18.11.2018

36. Vimal and Sangeeta starts from a fixed point. Vimal moves 3 kms north and turns right then he covers 4 kms. Sangeeta moves 5 kms west, turns right and walks 3 kms. The distance between Vimal and Sangeeta is



38. There are three dice in the given figure. Numbers from 1 to 6 are marked on different faces of the die. What will be the number on opposite face to 4 by observing the dice ?

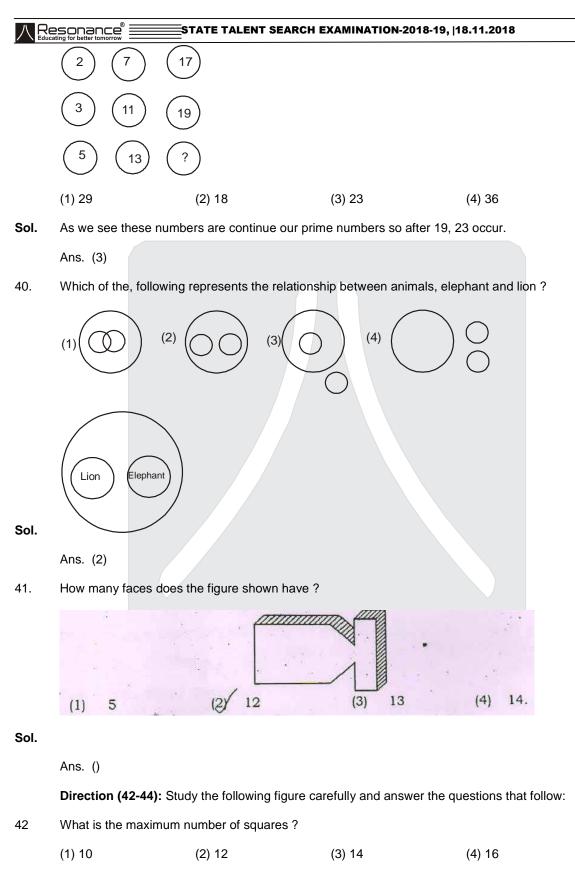


Sol. In (i) ,(ii) & (iii) it depicts such case is not possible. From (i) and (iii) 1 = opposite to 4

Ans. (Bonus/1)

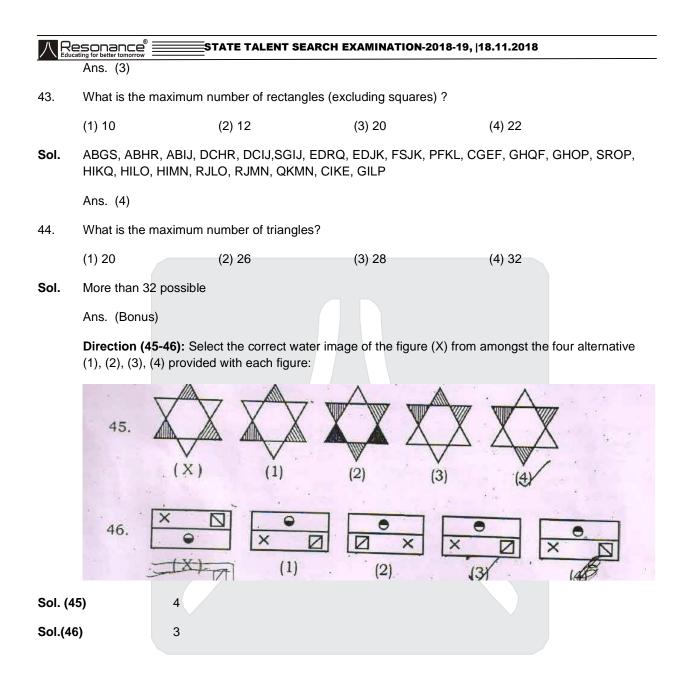
39. Which number will come in the place of question mark (?) ?



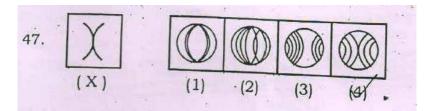


 Sol.
 ABCD, DCGS, GHRS, HIJR, QRJK, SRQF, DSFE, FQOP, QKLO, OLMN, CHQE, GIKF, PSJL, SHJQ

 Image: Composition of the state of the state



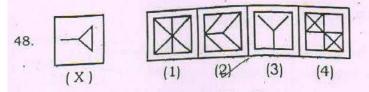
Direction (47-48): You are given a figure (X) followed by four figures (1), (2), (3), (4), such that (X) is embedded in one of them. Choose the correct alternative :



Sol. Only (4) is possible

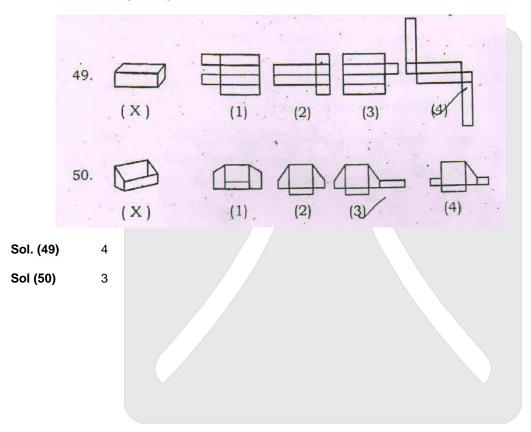
 Corporate Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)- 324005 Head Office: Plot No. A-51 [A], IPIA, Near Resonance CG Tower Contact : 0744-6635569		
Website :www.pccp.resonance.ac.in E-mail : pccp@resonance.ac.in	MAT PAPER & SOLUTION	
Toll Free : 1800 258 5555 CIN: U80302RJ2007PLC024029	STSE-2018 PAGE-11	





Sol. Most appropriate (2)

Direction (49-50): Which of the following figures (1),(2), (3) and (4) when folded along the lines will produce the given figure (X) ? Write the correct alternative.



 Corporate Office : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.)- 324005

 Head Office : Plot No. A-51 [A], IPIA, Near Resonance CG Tower Contact : 0744-6635569

 Website :www.pccp.resonance.ac.in | E-mail : pccp@resonance.ac.in
 MAT PAPER & SOLUTION

 Toll Free : 1800 258 5555 | CIN: U80302RJ2007PLC024029
 STSE-2018 PAGE-12