

Analogy and Classification

INTRODUCTION

Analogy is a comparison between two things. Which may be quite different from each other. An analogy looks at complex subjects and simplifies them through comparison. The simplified or more familiar aspect of an analogy helps a student to understand the more complex concept. In such type of problems, a particular relationship is followed between two pair of letter/number/figure are given on either side of '::'. Student has to identify the relationship and choose the correct answer from the given four options.

We classify various items into a group on the basis of their common properties. These items may be letters/numbers/figures/things. In such type of problems, some items are given. All these items except one are similar in some manner. A student is required to identify the odd one out. Now, let us have a look on some examples discussed below:

Example 1. Letter: Word :: Page:?

- (a) Ink
- (b) Pen
- (c) Book
- (d) Paper

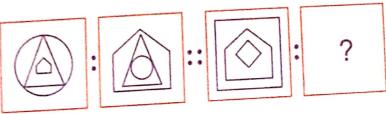
Explanation: (c): As Word is a group of letters similarly Book is a group of pages.

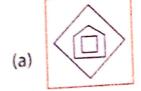
Example 2. 237:732 :: 475:?

- (a) 957
- (b) 574
- (c) 832
- (d) 858

Explanation: (b): The digits of the number are in reverse order.

Example 3. Choose the correct option which would replace the question mark(?).





(b)



(c)



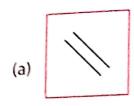


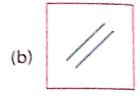
Explanation:

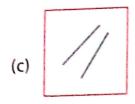
(a): The innermost figure becomes the outermost figure while the outermost figure. figure becomes the innermost figure.

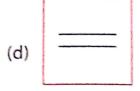
Example 4.

Choose the figure that is different from the rest.





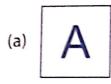


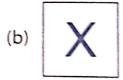


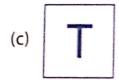
Explanation:

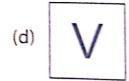
(c): Except (c), the two line segments are parallel to each other in all the figures.

Find the odd one out in the given figures. Example 5.









Explanation:

(a): Except figure in option (a), all other are formed from two straight line.

Example 6.

Find the odd one out in the given number series.

- (a) 832
- (b) 238
- (c) 274
- (d) 382

Explanation:

(c): Except option (c), all other numbers are formed by the digits 2, 3 and 8

Example 7. Find the odd one out.

- (a) Mother
- (b) Father (c) Wife
- (d) Sister

Explanation:

(b): Except option (b), all other are females.

Exercise

Direction (Q.1 to 15); Identify the relation between each of the given pairs on either side of '::'. Replace the question mark '7' with the correct option.

- 1. 63:48 :: 35:?
 - (a) 28

ermost

he

- (b) 24
- (c) 22
- (d) 18

- 2. 10:26 :: 17:7
 - (a) 56
- (b) 49
- (c) 61
- (d) 63

- 3. 11:17::23:?
 - (a) 27
- (b) 29
- (c) 31
- (d) 37

- 4. 4:18 :: 48:7
 - (a) 86
- (b) 92
- (c) 100
- (d) 120

- 5. 41:14 :: 73:?
 - (a) 11
- (b) 37
- (c) 21
- (d) 25

- 6. Teeth: Chew :: Mind:?
 - (a) Think
- (b) Brain
- (c) Study
- (d) walk

- 7. Country: State :: Year:?
 - (a) Hours
- (b) Days
- (c) Weeks
- (d) Months

- 8. Madhya Pradesh: Bhopal:: Uttar Pradesh:?
 - (a) Kanpur
- (b) Lucknow
- (c) Agra
- (d) Indore

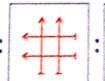
- 9. Mother: Home :: Teacher:?
 - (a) Study
- (b) Punish
- (c) School
- (d) Madam

- 10. Poverty: Wealth:: Yoga:?
 - (a) Health
- (b) Exercise
- (c) Oldness
- (d) Young

11.









(a)



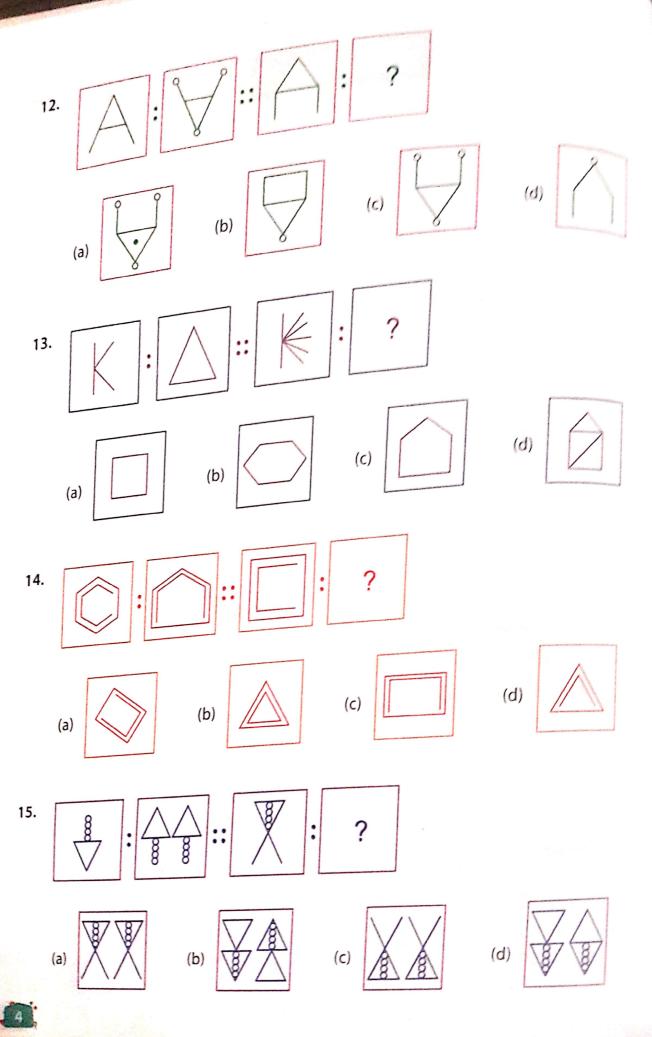
(b)



(c)







Direction (Q.16 to 25): Find the odd one out in the given series.

- 216, 343, 416, 512,729 16.
 - (a) 216
- (b) 416
- (c) 729
- (4) 512

- 221, 284, 362, 393, 495 17.
 - (a) 284
- (b) 362
- (c) 495
- (d) 721

- 17, 23, 13, 63, 79 18.
 - (a) 23
- (b) 17
- (c) 23
- (d) 63

- Diameter, Chord, Diagonal, Radius 19.
 - (a) Radius
- (b) Chord
- (c) Diagonal
- (d) Diameter

- Square, Rhombus, Parallelogram, Pentagon 20.
 - (a) Rhombus
- (b) Parallelogram
- (c) Square
- (d) Pentagon

- Metre, Centimetre, Litre, Kilometre 21.
 - (a) Litre
- (b) Kilometre
- (c) Centimetre
- (d) Metre

22. (a)







(c)



(d)



23. (a)



(b)



(c)



(d)



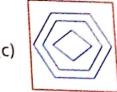
24. (a)



(b)



(c)



(d)



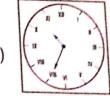
25. (a)

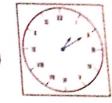


(b)



(c)







INTRODUCTION

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The term 'Coding-Decoding' primarily relates to messages sent in secret form. Coded messages sent in secret form. The term 'Coding-Decoding' primarily relates to measure that is ground the term 'Coding-Decoding' primarily relates to measure that is ground the term 'Coding-Decoding' primarily relates to measure that is ground the term 'Coding-Decoding of the te The term comme cannot be easily understood by anyone of the cannot therefore, means rule or method used to muce the actual message word or group words. Decoding means the method of making out the actual message that is disguised and students are asked to code out of the co words. Decoding means the method of making out the words. Decoding means the method of coding. In the questions based on coding-decoding disguisted in a particular way and students are asked to code other word. in a particular method of coding. In the questions (basic word) is coded in a particular way and students are asked to code other words of the code of (basic word) is coded in a particular way and state the same way. Questions on coding-decoding are designed to test a student's ability to find out the coding to the coding of the codi the same way. Questions on coging-decoding and then translate it quickly to find out the codes Let us see some examples.

If 'TRAINS' is coded as 'RTIASN', in a code language how will 'PISTOL' be Example 1.

- (a) SITLOP
- (b) IPSTLO
- (c) SIPTLO
- (d) IPTSLO

Explanation:

(d): Each two letters in the word interchange their position in the coded $_{\mbox{Word}}$ given in the question.

In a certain language, 'POSTER' is coded as '918273' and 'SHAME' is coded Example 2. as '86047'. How will 'HATES' be coded in that language?

- (a) 60278
- (b) 62078
- (c) 60287
- (d) 60728

Explanation:

(a): H \rightarrow 6, A \rightarrow 0, T \rightarrow 2, E \rightarrow 7 and S \rightarrow 8.

In a certain code, 'BLACK IS WHITE' is written as 'JA KE MO', 'WHITE ARE Example 3. GREEN' is written as 'KE UE PE' and 'GREEN IS YELLOW' is written as 'MO PE MJ'. What is the code for 'ARE'?

- (a) KE
- (b) PE
- (c) MO
- (d) UE

Explanation:

(d): In the first two statements, the common word is WHITE and the common code is KE, i.e. WHITE \rightarrow KE. In the second and third statements the common word is GREEN and the common code is PE, i.e. GREEN ightarrow PE. Now from the second statement the remaining word is ARE and the remaining code is UE, i.e. ARE → UE.

Exercise

 If 'TAP' is coded as 'SZO', then how will 'FREEZE' be coded? (a) EQDFYG (b) EQDDYD (c) EQFFAF (d) GSFFAF In a certain code language, 'SIKKIM' is written as 'THLJJL'. How is 'DELHI' with that code language? (a) EDMGJ (b) CFKIH (c) EDMJG (d) CFKHI 	
(a) EQDFYG (b) EQDDYD (c) EQFFAF (d) GSFFAF 2. In a certain code language, 'SIKKIM' is written as 'THLJJL'. How is 'DELHI' with the code language? (a) EDMGJ (b) CFKIH (c) EDMJG (d) CFKHI	
that code language? (a) EDMGJ (b) CFKIH (c) EDMJG (d) CFKHI	:
(a) EBM65 (b) CFR/II (c) EBM50	written in
3. If certain code language, 'CODING' is written as 'GNIDOC'. How will 'DE be written in that code language?	
(a) GNIDOCDE (b) GNIODCED (c) GNIDOCED (d) GNIDCO	
4. In a certain code, 'MISSIONS' is written as 'MSIISNOS'. How is 'ONLINE' w	ritten in
that code? (a) OLNNIE (b) ONILEN (c) NOILEN (d) LNOENI	
5. In certain code, 'TIGER' is written as 'QDFHS'. How is 'FISH' written in that	t code?
(b) GHER (c) GREN	
(a) GRHE (b) GHER (c) 6. In certain code, 'FROZEN' is written as 'OFAPSG'. How will 'MOLTEN' be welled to the control of the control of the certain code.	ritten in
that code? (c) OFSMPN (d) OFUNPI	М
(a) OFUMPN (b) OFPOMN (c) 7. In a certain code, 'UHUZ' is written as 'VIVA'. How will 'VIVA' be written	n in that
code? (c) WJWZ (d) ZUHU	
(a) UHUZ (b) WJWB (a) UHUZ (b) WJWB 8. In a certain code, 'LIMCA' is written as KJLDZ'. Which of the following w	ords Will
he written as GPMEZ III HORSE (d) HORSE	
(a) HOUSE (b) HIND! (C) HOUSE is coded as '7	25430
(a) HOUSE (b) HINDI (c) HOUSE 9. If 'ENGLAND' is coded as '0418546' AND 'FRANCE' is coded as '7 then how is 'GREECE' coded? (b) 120040 (c) 120300 (d) 120330	7

,	10	h			The means 'SEE GOOD PICTURE', '192' means 'SEE GOOD PICTURE', '192' means 'Good Market of the digits stands of the digits
	10.	in a certain co	de la	nguage, '479	means term
		AND TASTY' a	nd 12	36' means '!	DAY AND WE GOOD PICTURE
		TASTY?			NIGHT. Which of 192. ma
		(a) 1		(6) 3	the digit.
				(0) 2	(C) 3
1	1.	If 'COMPUTER' i	s coo	ded as '98765	(c) 3 (d) 9 (432', then how 'CPU' will be coded?
		(a) 973		th) are	then how 'CPU' will be
				(0) 962	(c) 965
12	2.	f 'WARD' is writ	ten a	95 '2468' hav	w will 'DRAW' be written?
	{	a) 4268		2 100 , 110	Will 'DRAW' be written?
	(4200		(b) 4672	(c) 6792
13	. 1	f in a certain lar	· ·	aa (C)	(d) 8642
) in the same and	igua	ge, 'GUN' is w	ritten as 'NUG', then 'RID .
	(a) LUBTEL	(b) TELLUB	(c) 6792 (d) 8642 written as 'NUG', then 'BULLET' will be written at (d) BLLTEL
14	14	E POMEC .			(d) BLLTEU
. ,		NOME IS code	d as	'#*@&', then '	'MORE' will be coded as
	(8	a) @*#&	(1	b) &@*#	
15		100			(c) &*#& (d) #@*&
15.	11	'SPOT' is coded	as "	TOPS', then 'C	:IVIC will be coded as
	(a) ICCIV	(t) VICIC	
					(c) CIVIC (d) CIVCI
16.	lf	in a certain lang	uage	e, 'EDUCATIOI	(d) CIVCI N' is written as '876543210', then 'DEDUCTION'
	Wi	ll be written as			mitter as 8/6543210', then 'DEDUCTION
	(a)	787653210			- 110%
				878654321	(c) 787643210 (d) 878543210
17.	In a	a certain code, '2	47′ m	neans 'SPREAD	RED CARPET', '256' means ' DUST ONE CARPET'
	'26	4' means 'ONE	RED (CARPET' Whi	RED CARPET', '256' means 'DUST ONE CARPET
					ch digit in that code means DUST ONE CARPET.
	(a)	2	(b)	4	(c) 5 (d) 6
18.	In c	ertain code (TU	OHE!	MD/:	(4) 6
	tha	t codo?	JUSF	IND' is written	as 'HTUOASDN'. How is 'BALLOONS' written in
	(a)	ABLLOOSN	(b)	BALLOOSN	(c) LABOLONS (d) BLAOLONS
19.	If in	the Facility			(0) 00 (020)
	lote	the English alp	habe	t, each altern	ate letter from B onwards is written in small
	lette	ers while others	are v	vritten in capi	tals, then how will the 3rd day from Tuesday
	be c	oded?			and ord day from ruesday

(a) frIdAY (b) FrIdAY

(c) THURSdAY (d) ThUrSdAY

In a certain code, 'SEQUENCE' is written as 'FDOFVRFT'. How is 'CHILDREN' written in that code?
(a) OFESJMID (b) OFSEMJID (c) OFSEJIMD (d) OFSEJMID
If "REASON' is coded as '*&@#\$%', then 'SEASON" is coded as

23. If "REASON" is coded as "*&@#\$%", then SEASON is coded as (d) #&#@\$%

(a) @#&@\$%

(b) #&@#\$%

(c) #\$&@#%

(d) #&#@\$%

24. In a certain code, 'TIGER' is written as 'REGIT'. How is 'HORSE' coded in that cod

(a) ERSOH (b) EOSRH (c) ESORH (d) ESROH

25. In a certain code, 'DEAR' is written as '9081'. How is 'READER' is written in that co (a) 108190 (b) 180091 (c) 108901 (d) 108109



Mirror and Water Images

INTRODUCTION

The reflection of an object into the mirror is called its mirror image. It is obtained by The reflection of an object into the final the original figure and mirror image together,

MIRROR IMAGE

Mirror Images of Capital letters

Letter	Image	Letter	Image	Letter	Image	Letter	1
Α	Α	Н	Н	0	0	V	Image
В	8	$_{j_{1}}I_{i_{2}j_{2}j_{2}}$		Р	q	W	٧
С	Э	J	ι	Q	Ω	Χ	W
D	a	K	К	R	Я	V	X
E	3	L	J	S	2	7	Υ
F	7	М	M	T	- T	Z	Z
G	Э	N	И	U	U		

The capital letters which have the same mirror images are:

A, H, I, M, O, T, U, V, W, X, Y

Mirror Images of Small letters

Letter	Image	Letter		of Small let	tters		
a	6	-	Image	Letter	Image	Letter	
ь		h	h	0	0		Image
C	d	i i	i	р		V	٧
d	3	j	i	q	q	W	W
е	Ь	k	k	4	р	X	X
1	9	1			1	У	
9	1	m		S	5	Z	
	б	n	m	it is		_	Z
•			n	u			

The small letters which have the same mirror images are:

Mirror Images of Numbers

0	1	2	2	4			mage	2 01 14	umbe	ers					-
0		ć	,	4	5	6	7	8	9	10	11	12	13	14	15
0	1	7		4	5	9	7	8	6	10	11	12	13	14	15

0 and 8 numbers have the same mirror images.

WATER IMAGES

The reflection of an object into water is called its water image. It is obtained by inverting an object vertically.

In water image (horizontal), the LOWER and UPPER parts interchange positions and the LEFT and RIGHT parts remain constant.

Water Images of Capital Letters

Α	В	C	D	E	F	G	Н	1	J	K	L	М	N	0	P	Q	R	S	Т	U	٧	W	Χ	Y	Z
A	В	C	D	Ε	Ł	G	Н	1	٦	К	Γ	M	И	0	Ь	Q	R	S	1	n	٨	M	X	λ	Z

Water Images of Small Letters

a	b	С	d	e	f	g	h	i	j	k	ı	m	n	0	р	q	r	S	t	u	٧	w	X	У	z
g	р	c	q	е	f	a	h	!	j	k	١	m	n	0	b	d	L	S	t	п	٨	M	X	λ	Z

Water Images of Numbers

0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9

Now, let us understand mirror and water images with the help of some examples.

Example 1. Choose the alternative which closely resembles the mirror image of the given combination.

1965INDOPAK

16e5INDOPAK (a)

56910DNIKAP (d)

1695INDOPAK (a)

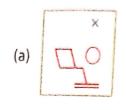
1965INDOPAK (b)

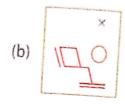
Explanation: (d): As per the given tables, the correct mirror image is in the option (d).

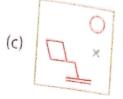


Choose the correct mirror image of the given figure, Example 2.











Explanation:

(c): In the mirror image, the left side of the object becomes right while right.

From the options given below, choose the one that represents the correctExample 3.

C9e4t8E (a)

C9e4t83 (d)

(c) 38t + 9 C

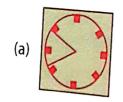
(q) E8t4e9C

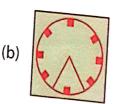
Explanation:

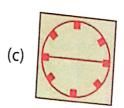
(d): As per the given tables, the correct water image is option (d).

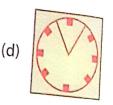
Choose the correct water image of the given figure. Example 4.











Explanation:

(b): In the water image,

- The top side of the object becomes the bottom.
- The bottom side of the object becomes the top.
- The left and right sides of the object remain unchanged.

Exercise

Direction (Q.1 to 17): Choose the correct mirror image of the given word/number/figure.

QUANTITATIVE 1.

- (a) **BVITATITNAUQ**

- QUANTITATIVE (P) ON CONTITATIVE (P) CONTITATIVE (P)

ab45CD67 2.

- ab45CD67 (6)
- (p) ab45CD67
- (c) PPFSCD97
- 790324da (p)

9145 3.

- 9145 (a)
- (b) 6175
- (c) 9145
- (q) 3145

REASONING 4.

- (a) GNINOSAER
- REASONING (d)
- REASONNG (5)
- REAZONING (b)

Nu56p7uR 5.

- Ru7p65uN (a)
- Nn56p7nR (d)
- Nu56p7uR (a)
- Nu5ep7uR (b)

MALAYALAM 6.

- (a) MALAYALAM
- MALAYAJAM (d)
- (c) MALAYALAM
- (d) WALYYYLAM

qutubgarh 7.

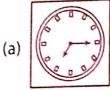
- hragbutuq (a)
- (p) qutubgarh
- (c) hragbutuq
- qutubgarh (b)

WHITE 8.

- MHITE (a)
- MHITE (d)
- WHITE (a)
- (d) ETIHW







(b)



(c)



(d)



10.



(a)

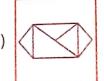


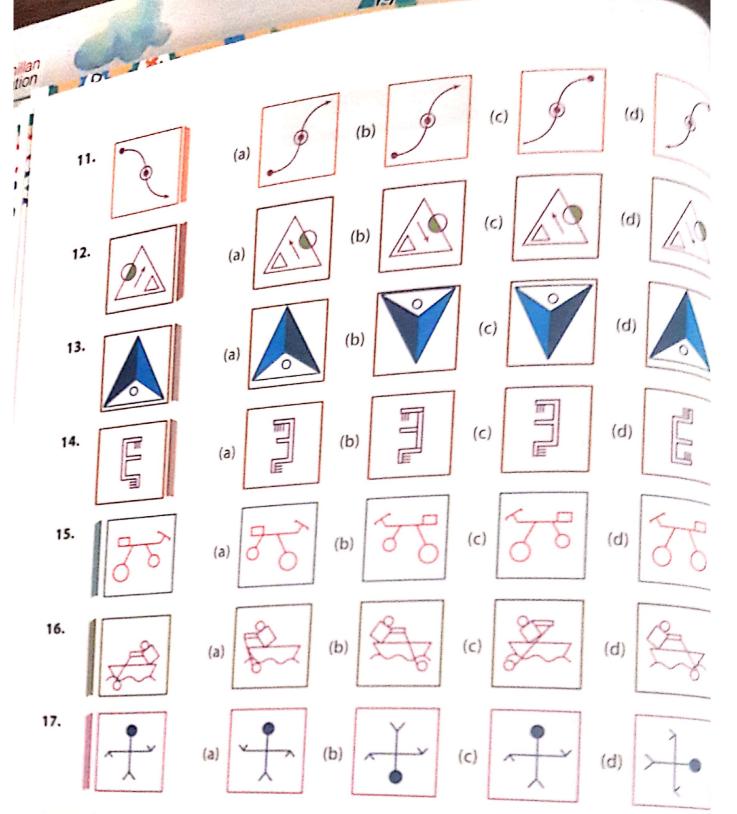
(b)



(c)







Direction (Q.18 to 28): Choose the alternative which closely resembles the water-image of the given word/number/figure.

18. US91Q4M5W3

- Lize

 (a) US91Q4M5WE (p) US91Q4M5W3 (c) US91Q4M5W3
- 19. rise
- (a) use (b) esir (c) vise (d) asir

