

Analogy Exercise Questions, Answers & Explanation

1. Which of the following is related to 'Melody' in the same way as 'Delicious' is related to 'Taste'?
(a) Memory (b) Highness
(c) Voice (d) Speak
 2. In a certain way 'Diploma' is related to 'Education'. Which of the following is related to 'Trophy' in a similar way?
(a) Sports (b) Athlete
(c) Winning (d) Prize
 3. 'Clock' is related to 'Time' in the same way as 'Vehicle' is related to which of the following?
(a) Driver (b) Road
(c) Passenger (d) Journey
 4. "Illness" is related to "Cure" in the same way as "Grief" is related to
(a) Happiness (b) Ecstasy
(c) Remedy (d) Solitude
 5. 'Bouquet' is related to 'Flowers' in the same way as 'sentence' is related to
(a) Letters (b) Paragraph
(c) Content (d) Words
 6. 'Electricity' is related to 'Wire' in the same way as 'Water' is related to
(a) Bottle (b) Jug
(c) River (d) Pipe
 7. Mathematics is related to Numbers in the same way History is related to :
(a) People (b) Events
(c) Dates (d) Wars
 8. 'Locker' is related to 'Jewellery' in the same way as 'Godown' is related to
(a) Storage (b) Grasm
(c) Garments (d) Goods
 9. Distil is related to Whiskey in the same way as Brew is related to?
(a) Ferment (b) Gin
(c) Beer (d) Sugar
 10. 'Story' is related to 'Novel' in the same way as 'Sea' is related to which of the following?
(a) Ocean (b) Water
(c) River (d) Pond
 11. 'Hygrometer' is related to 'Humidity' in the same way as 'Sphygmomanometer' is related to
(a) Pressure (b) Blood Pressure
(c) Precipitation (d) Heart Beat
 12. Engineer' is related to 'Machine' in the same way as 'Doctor' is related to
(a) Hospital (b) Body
(c) Disease (d) Medicine
 13. 'Dream' is related to 'Reality' is the same way as 'Falsehood' is related to which of the following.
(a) Untruth (b) Truth
(c) Fairness (d) Correctness
 14. 'Frame work' is related to 'House' in the same way as 'Skeleton' is related to which of the following?
(a) Ribs (b) Skull
(c) Body (d) Grace
- DIRECTIONS (Qs. 15 to 87):** In each of the following questions, there are two words / set of letters / numbers to the left of the sign:: which are connected in some way. The same relationship obtains between the third words / set of letters/ numbers and one of the four alternatives under it. Find the correct alternative in each question.
15. Import: Export:: Expenditure : ?
(a) Deficit (b) Income
(c) Debt (d) Tax
 16. Ocean: Water:: Glacier : ?
(a) Refrigerator (b) Ice
(c) Mountain (d) Cave
 17. Medicine: Sickness:: Book : ?
(a) Ignorance (b) Knowledge
(c) Author (d) Teacher
 18. Bank: River:: Coast : ?
(a) Flood (b) Waves
(c) Sea (d) Beach
 19. Thunder: Rain:: Night:

- | | | | |
|--|-------------------|---------------------------------------|------------|
| (a) Day | (b) Dusk | (c) JPCH | (d) BJJP |
| (c) Darkness | (d) Evening | 34. MUMBAI: LTLAZH: DELHI: | |
| 20. Breeze: Cyclone:: Drizzle : ? | | (a) CDKGJ | (b) IHLED |
| (a) Earthquake | (b) Storm | (c) CDKGH | (d) BCKGH |
| (c) Flood | (d) Downpour | 35. RATIONAL: RATNIOLA::____: TRILBA | |
| 21. Disease: Pathology:: Planet: ? | | (a) TIRLAB | (b) TRIBAL |
| (a) Astrology | (b) Geology | (c) TRIALB | (d) TIRBAL |
| (c) Astronomy | (d) Palaeontology | 36. HEATER: KBDOHO:: COOLER:? | |
| 22. Foresight: Anticipation:: Insomnia : ? | | (a) ALRHV | (b) FLRIHO |
| (a) Treatment | (b) Disease | (c) FLIRHO | (d) FRLIHO |
| (c) Sleeplessness | (d) Unrest | 37. PAPER: SCTGW:: MOTHER : ? | |
| 23. Oasis: Sand:: Island : ? | | (a) ORVLGW | (b) PQVIGT |
| (a) River | (b) Sea | (c) PQXJJT | (d) PQXKJV |
| (c) Water | (d) Waves | 38. POPULAR: QPQVMBS::? : GBNPVT | |
| 24. Major: Battalion:: Colonel: ? | | (a) FAMOSU | (b) FAMOUS |
| (a) Company | (b) Regiment | (c) FASOUM | (d) FOSAUM |
| (c) Army | (d) Solthers | 39. CALCUTTA : GEPGYXXE :: ? : FSQFCE | |
| 25. Shout: Whisper:: Run : ? | | (a) BOMBYA | (b) BOMBAY |
| (a) Stay | (b) Stand | (c) BOMYAB | (d) BOBAYM |
| (c) Walk | (d) Hop | 40. PRLN: XZTV:: JLFH : ? | |
| 26. Smoke: pollution: war:? | | (a) NPRT | (b) NRPT |
| (a) victory | (b) peace | (c) NTRP | (d) RTNP |
| (c) treaty | (d) destruction | 41. ACFJ: OUZJ:: SUXB : ? | |
| 27. Hour: second:: tertiary :? | | (a) GNSA | (b) GLQZ |
| (a) ordinary | (b) secondary | (c) GKPY | (d) GMRB |
| (c) primary | (d) intermediary | 42. ACE: HIL:: MOQ : ? | |
| 28. Safe: secure:: Protect :? | | (a) XVT | (b) TVX |
| (a) guard | (b) lock | (c) VTX | (d) TUX |
| (c) sure | (d) conserve | 43. ACBD : EFGH :: OQPR – | |
| 29. Penology: Punishment: Seismology : | | (a) STUV | (b) RSTU |
| (a) Law | (b) Earthquake | (c) UVWX | (d) QRST |
| (c) Liver | (d) Medicine | 44. TSR: FED:: WVU ? | |
| 30. DRIVEN: EIDRVN:: BEGUM : ? | | (a) CAB | (b) MLK |
| (a) EUBGM | (b) MGBEU | (c) PQS | (d) GFH |
| (c) BGMEU | (c) UEBGM | 45. CJD L : FMGR :: IKJR: ? | |
| 31. NUMBER: UNBMER::GHOST:? | | (a) OQPT | (b) RSTU |
| (a) HOGST | (b) HOGTS | (c) LSMT | (d) KRMO |
| (c) HGOST | (d) HGSOT | 46. BCDA : STUR :: KLMJ : ? | |
| 32. MASTER: OCUVGT:: LABOUR:? | | (a) VWXU | (b) EFHG |
| (a) NCDQWT | (b) NDERWT | (c) SRTU | (d) QSRP |
| (c) NBCRWT | (d) NEDRWT | 47. CEG:EGC ::LNP: | |
| 33. RIDE: LNBE:: HELP : ? | | (a) LPN | (b) UWY |
| (a) NINP | (b) BAJP | (c) NPL | (d) MOP |

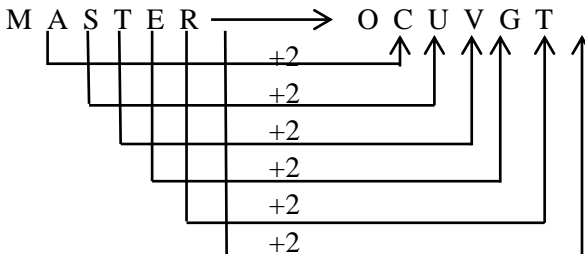
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|-------------------------|---------|---------|---|---------------|
| 48. KLM:PON::NOP: | (a) LMK | (b) MLK | (a) 41 | (b) 56 |
| | (c) NML | (d) KLN | (c) 60 | (d) 65 |
| 49. ACE:FGH::LNP : ? | (a) QRS | (b) PQR | 63. 2149370: 2854610: 2735630:? | (a) 7536501 |
| | (c) QST | (d) MOQ | | (b) 832150 |
| 50. 14: 9:: 26 :? | (a) 12 | (b) 13 | | (c) 880890 |
| | (c) 15 | (d) 31 | 64. Petrology: Rocks :: Palaeontology : ? | (d) 9437102 |
| 51. 11 : 17:: 19:? | (a) 2 9 | (b) 2 7 | (a) Birds | (b) Animals |
| | (c) 2 3 | (d) 2 1 | (c) Fossils | (d) Soil |
| 52. 3 : 27 : : 4 :? | (a) 140 | (b) 75 | 65. Melt: Liquid: : Freeze: ? | (a) Crystal |
| | (c) 100 | (d) 64 | | (b) Solid |
| 53. 12 : 30 : : 20:? | (a) 25 | (b) 32 | (c) Ice | (d) Evaporate |
| | (c) 35 | (d) 42 | 66. 8:27::?:81 | (a) 24 |
| 54. 3 : 10 :: 8, ? | (a) 10 | (b) 13 | | (b) 34 |
| | (c) 14 | (d) 17 | 67. Length: Metre: : Power :? | (c) 44 |
| 55. 13 : 19 : ? : 31 | (a) 21 | (b) 23 | (a) Calories | (b) Degree |
| | (c) 25 | (d) 26 | (c) Watt | (d) Kilogram |
| 56. 48: 122:: 168:? | (a) 284 | (b) 286 | 68. Square: Cube:: Circle : ? | (a) Ellipse |
| | (c) 288 | (d) 290 | | (b) Parabola |
| 57. 5:21::7:? | (a) 25 | (b) 49 | (c) Cone | (d) Sphere |
| | (e) 43 | (d) 30 | 69. Paper: Tree:: Glass : ? | (a) Window |
| 58. 182: ? :: 210 : 380 | (a) 342 | (b) 272 | | (b) Sand |
| | (c) 240 | (d) 156 | (c) Stone | (d) Mirror |
| 59. 16: 56:: 32:? | (a) 96 | (b) 112 | 70. ACFJ: ZXUQ:: EG IN : ? | (a) VUSQ |
| | (c) 120 | (d) 128 | | (b) VRPM |
| 60. 23: 13 54:? | (a) 45 | (b) 39 | (c) UTRP | (d) VTRM |
| | (c) 40 | (d) 41 | 71. ACEG: DFHJ:: QSUW :? | (a) TVXZ |
| 61. 49: 21 169:? | (a) 26 | (b) 39 | | (b) TQST |
| | (c) 42 | (d) 13 | (c) MNPR | (d) EGIJ |
| 62. 25: 37:: 49:? | | | 72. EGIK: FILO:: FHJL : ? | (a) JGMP |
| | | | | (b) JGPM |
| | | | 73. 10:91 :: 9 : ? | (c) GJPM |
| | | | (a) 69 | (d) GJMP |
| | | | (c) 89 | (b) 72 |
| | | | 74. 7: 56 :: 9 : ? | (d) 97 |
| | | | (a) 63 | (b) 81 |
| | | | (c) 90 | (d) 99 |
| | | | 75. 20 : 50 :: 100 : ? | (a) 150 |
| | | | | (b) 250 |
| | | | (c) 200 | (d) 156 |
| | | | 76. Voyage: Sea sickness:: Heights : ? | (a) Ship |
| | | | | (b) Travel |

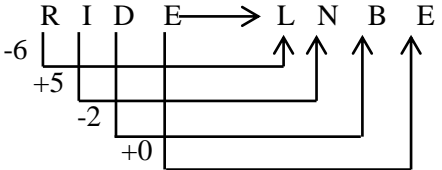
77. (c) Giddiness (d) Motion
Waitress: Restaurant::?
- (a) Doctor: Nurse (b) Driver: Truck
(c) Teacher: School (d) Actor: Role
78. AROUND: RAUODN::GROUND:?
(a) RGUODN (b) NDOOGR
(c) OUNDGR (d) DNUURG
79. APPROACHED: ROACHEDAPP::
BARGAINED:?
(a) AINEDBARG (b) GAINEDBAR
(c) GAINEDRAB (d) RABGAINED
80. 8:256 :: ?
(a) 7:343 (b) 9: 243
(c) 10 : 500 (d) 5: 75
81. 21:3:: 574 : ?
(a) 23 (b) 82
(c) 97 (d) 113
82. Saint: Meditation: : Scientist: ?
(a) Research (b) Knowledge
(c) Spiritual (d) Rational
83. King : Palace :: Eskimo : ?
(a) Caravan (b) Asylum
(c) Monastery (d) Igloo
84. AFKP: DINS:: WBGL : ?
(a) ORUX (b) OSWA
(c) OTYD (d) OQSU
85. SINGER: QGLECP:: MONSTER: ?
(a) KLNSCP (b) KLMSCP
(c) KMLQRC (d) KLMTDO
86. 18: 5:: 12:?
(a) 4 (b) 10
(c) 3 (d) 6
87. 12: 20::?
(a) 15:37 (b) : 16:64
(c) : 27 : 48 (d) 30:42

ANSWER KEY

1	(c)	12	(c)	23	(c)	34	(c)	45	(c)	56	(d)	67	(c)	78	(a)
2	(a)	13	(b)	24	(b)	35	(b)	46	(a)	57	(c)	68	(d)	79	(b)
3	(d)	14	(c)	25	(c)	36	(b)	47	(c)	58	(a)	69	(b)	80	(c)
4	(c)	15	(b)	26	(d)	37	(c)	48	(b)	59	(b)	70	(d)	81	(b)
5	(d)	16	(b)	27	(c)	38	(b)	49	(a)	60	(d)	71	(a)	82	(a)
6	(d)	17	(a)	28	(a)	39	(a)	50	(c)	61	(b)	72	(d)	83	(d)
7	(b)	18	(c)	29	(b)	40	(d)	51	(a)	62	(d)	73	(b)	84	(c)
8	(d)	19	(c)	30	(b)	41	(d)	52	(d)	63	(d)	74	(c)	85	(c)
9	(c)	20	(d)	31	(d)	42	(d)	53	(d)	64	(c)	75	(b)	86	(c)
10	(a)	21	(c)	32	(a)	43	(a)	54	(d)	65	(c)	76	(c)	87	(d)
11	(b)	22	(c)	33	(d)	44	(b)	55	(b)	66	(a)	77	(c)		

Hints and Explanation

1. (c) 'Delicious' is the adjective used for 'Taste'. Similarly, 'Melodious' is the adjective used for 'Voice'.
2. (a) A successful finish of 'Education' equips one with 'Diploma'. Similarly, a successful finish in 'Sports' equips one with 'Trophy'.
3. (d) The clock makes a journey of time.
4. (c) Cure ensures removal of illness in the same way as remedy insures removal of grief.
5. (d) Bouquet is a bunch of flowers. Similarly, Sentence is a set of words that is complete in itself.
6. (d) Wire is the medium to transmit Electricity. Similarly, Pipe is the medium to carry Water.
7. (b) Mathematics is related to the numbers in the same way History is related to Events.
8. (d) Goods are stored in godown.
9. (c) First is process of preparing the second.
10. (a) First is the shorter form of second.
11. (b) First is an instrument to measure the second.
12. (c) First tackles the second.
13. (b) Dream is antonym of Reality, Similarly, falsehood is antonym of truth.
14. (c) Framework is foundation on which house is built. Similarly, body is built around skeleton.
15. (b) The words in each pair are antonyms.
16. (b) First consists of the second.
17. (a) As medicine cures sickness, in the same way, books remove ignorance.
18. (c) Bank is the land beside a river. Similarly, coast is the land beside a sea,
19. (c) As 'Rain' is followed by 'Thunder', similarly 'Darkness' is followed by 'Night'.
20. (d) Second is more intense than the first.
21. (c) Diseases are studied under Pathology. Similarly, planets are studied in Astronomy.
22. (c) The words in each pair are synonyms.
23. (c) 'Oasis' is a water pool amidst sand. Similarly, island is a piece of land amidst water.
Remember: 'Sea' would have been the answer if we had 'desert' in place of 'sand'.
24. (b) As Major heads a battalion, the Colonel commands a regiment.
25. (c) Whisper is of lesser intense than shouting, so is walking to running.
26. (d) Smoke cause pollution similarly, destruction is the result of war.
27. (c) Second is smallest of hour and similarly, primary is initial stage
28. (a) Safe is synonyms of secure and protect is synonyms of guard.
29. (b) Penology is the study of punishment in the same way seismology is the study of earthquake.
30. (b) Fifth and third letters of the first term are first and second letters of the second term and first two letters of the first term are third and fourth letters of the second term.
31. First two letters of the first term are in reverse order in the second term and so are the next two letters.
32. (a) MASTER


Similarly
LABOUR → NCDQWT
33. (d)


Similarly HELP → BJJP
34. (c)

M	U	M	B	A	I
-1↓	-1↓	-1↓	-1↓	-1↓	-1↓
L	T	L	A	Z	H

Similarly

35.
$$\begin{array}{ccccc} D & E & L & H & I \\ 1\downarrow - 1\downarrow - 1\downarrow - 1\downarrow - 1\downarrow \\ C & D & K & G & H \end{array}$$

(b) **RATIONAL: RATNIOLA**
TRIBAL: TRILBA
First 3 Remain Same Place TRI
Then coming IIIrd one LBA \Rightarrow TRIBAL
Comes in IVth place. Then left two took place
and last if digit comes inter change them.

36.
$$\begin{array}{ccccc} H & E & A & T & E & R \\ -3\downarrow - 3\downarrow - 3\downarrow - 3\downarrow - 3\downarrow - 3\downarrow \\ K & B & D & Q & H & O \end{array}$$

Similarly

37.
$$\begin{array}{ccccc} C & O & O & L & E & R \\ +3\downarrow - 3\downarrow + 3\downarrow - 3\downarrow + 3\downarrow - 3\downarrow \\ F & L & R & I & H & O \\ P & A & P & E & R \\ +3\downarrow + 2\downarrow + 4\downarrow + 2\downarrow + 5\downarrow \\ S & C & T & G & W \end{array}$$

Similarly,

38.
$$\begin{array}{ccccc} M & O & T & H & E & R \\ +3\downarrow + 2\downarrow + 4\downarrow + 2\downarrow + 5\downarrow + 2\downarrow \\ P & Q & X & J & J & T \\ P & O & P & U & L & A & R \\ +1\downarrow + 1\downarrow + 1\downarrow + 1\downarrow + 1\downarrow + 1\downarrow + 1\downarrow \\ Q & P & Q & V & M & B & S \end{array}$$

Similarly,

39.
$$\begin{array}{ccccc} G & B & N & P & V & T \\ -1\downarrow - 1\downarrow - 1\downarrow - 1\downarrow - 1\downarrow - 1\downarrow \\ F & A & M & O & U & S \\ C & A & L & C & U & T & T \\ +4\downarrow + 4\downarrow + 4\downarrow + 4\downarrow + 4\downarrow + 4\downarrow + 4\downarrow + \\ G & E & P & G & Y & X & X \end{array}$$

A

4 \downarrow

E

Similarly,

40.
$$\begin{array}{ccccc} F & S & Q & F & C & E \\ -4\downarrow - 4\downarrow - 4\downarrow - 4\downarrow - 4\downarrow - 4\downarrow \\ B & O & M & B & Y & A \end{array}$$

- (d) As

Similarly,

$$P \xrightarrow{+8} X$$

$$J \xrightarrow{+8} R$$

$$R \xrightarrow{+8} Z$$

$$L \xrightarrow{+8} T$$

$$L \xrightarrow{+8} T$$

$$F \xrightarrow{+8} N$$

$$N \xrightarrow{+8} V$$

$$H \xrightarrow{+8} P$$

41. (d) As,

Similarly,

$$A \xrightarrow{+14} O$$

$$S \xrightarrow{+14} G$$

$$C \xrightarrow{+18} U$$

$$U \xrightarrow{+18} M$$

$$F \xrightarrow{+20} Z$$

$$X \xrightarrow{+20} R$$

$$J \xrightarrow{+0} J$$

$$B \xrightarrow{+0} B$$

42. (d) As,

Similarly,

$$A \xrightarrow{+7} H$$

$$M \xrightarrow{+7} T$$

$$C \xrightarrow{+6} I$$

$$O \xrightarrow{+6} U$$

$$E \xrightarrow{+7} L$$

$$Q \xrightarrow{+7} X$$

43.
$$A \xrightarrow{+2} C \xrightarrow{-1} B \xrightarrow{+2} D : E \xrightarrow{+1} F \xrightarrow{+1} G \xrightarrow{+1} H$$

$$\begin{array}{c} \uparrow \uparrow \\ +1 \end{array}$$

Similarly,

$$O \xrightarrow{+2} Q \xrightarrow{-1} P \xrightarrow{+2} R : S \xrightarrow{+1} T \xrightarrow{+1} U \xrightarrow{+1} V$$

$$\begin{array}{c} \uparrow \uparrow \\ +1 \end{array}$$

44. (b) The letters are consecutive and written in reverse order.

45. (c) In each set of letters, the 1st and 3rd letters are consecutive.

CJDL: FMGR: IKJR: LSMT

\square \square \square \square

46. In each group the first three letters are consecutive and they follow the fourth letter.

\bigcirc \bigcirc \bigcirc \bigcirc : \bigcirc \bigcirc \bigcirc \bigcirc : \bigcirc \bigcirc \bigcirc \bigcirc : \bigcirc \bigcirc \bigcirc \bigcirc

47. (c) The second set EGC is formed by simply putting the first letter of CEG at last to form EGC, and so on.

48. (b) Because KLM are assigned No. 11, 12 & 13 from A onwards, this corresponds to PON, which are also numbered 11, 12 and 13 from Z to A in reverse order. Hence NOP will correspond to MLK.

49. (a) The three letters moved 5, 4, and 3 and steps forward respectively.

50. (c) The relationship is $(2x - 4) : x$.

51. (a) 11 : 17 alternate prime number (skipping 13)
19 : 29 alternate prime number (skipping 23)

52. (d) Second term = (First term)³
Fourth term = (Third term)³
53. (d) $12 = 3^2 + 3$, $30 = 5^2 + 5$:
 $20 = 4^2 + 4$; $? = 6^2 + 6$
54. (d) $3 = 2^2 - 1$, $10 = 3^2 + 1$
 $8 = 3^2 - 1$, $? = 4^2 + 1$
55. (b) 13 and 19 are primes with 17 left out in between.
56. (d) $48 = 7^2 - 1$, $122 = 11^2 + 1$:
 $168 = 13^2 - 1$, $? = 17^2 + 1$
57. (c) $5 \times 5 = 25 - 4 = 21$; $7 \times 7 = 49 - 6 = 43$
58. (a) $210 = (15)^2 - 15$ \swarrow $15 + 5 = 20$
 $380 = (20)^2 - 20$ \swarrow
 $182 = (14)^2 - 14$ \swarrow $14 + 5$
 $(19)^2 - 19 = 342$
59. (b) $16 = 8 \times 2$
 $56 = 8 \times 7$
Similarly $32 = 16 \times 2$
 $= 16 \times 7 = 112$
60. (d)
- | | | | | | | | | |
|-------------|---|---|----|----|-------------|---|---|--|
| 2 | 3 | : | 13 | :: | 5 | 4 | : | <div style="border: 1px solid black; padding: 2px;">25+16=41</div> |
| ↓ | ↓ | | ↑ | | ↓ | ↓ | | ↑ |
| $2^2 + 3^2$ | | | | | $5^2 + 4^2$ | | | |
61. (b)
- | | | | | | | |
|-------|---|--------------|----|--------|---|--|
| 49 | : | 21 | :: | 169 | : | <div style="border: 1px solid black; padding: 2px;">39</div> |
| ↓ | | ↓ | | ↓ | | ↓ |
| 7^2 | | 7×3 | | 13^2 | | 13×3 |
62. (d)
- | | | | | | | |
|-------|---|---------------|----|-------|---|--|
| 25 | : | 37 | :: | 49 | : | <div style="border: 1px solid black; padding: 2px;">65</div> |
| ↓ | | ↓ | | ↓ | | ↓ |
| 5^2 | | $(5+1)^2 + 1$ | | 7^2 | | $(7+1)^2 + 1$ |
63. (d) $2+1+4+9+3+7+0=26$
 $2+8+5+4+6+1+0=26$
 $2+7+3+5+6+3+0=26$
Therefore, $9+4+3+7+1+0+2=26$
64. (c) Petrology is the branch of geology that deals with the origin, composition, structure and alteration of rocks. Therefore, palaeontology is the study of fossils to determine the structure and evolution of extinct animals and plants and the age and the conditions of deposition of the rock strata in which they are found.
65. (c) First is the process of formation of the second.
66. (a) $27 \times = 81$
 $\therefore 8 \times 3 = 24$
67. (c) Metre is a unit of length likewise watt is a unit of power.
68. (d) As cube is 3-D of square. Similarly sphere is 3-D of circle.
69. (b) As paper is product of Tree. Similarly glass is a product of sand.
70. (d) As, $\downarrow \downarrow \downarrow$ similarly, $\downarrow \downarrow \downarrow$
ACFJ EGIN
ZXUQ VTRM
71. (a) As, Similarly,
 $A \xrightarrow{+3} D$ $Q \xrightarrow{+3} T$
 $C \xrightarrow{+3} F$ $S \xrightarrow{+3} V$
 $E \xrightarrow{+3} H$ $U \xrightarrow{+3} X$
 $G \xrightarrow{+3} J$ $W \xrightarrow{+3} Z$
72. (d) As, Similarly,
 $E \xrightarrow{+1} F$ $F \xrightarrow{+1} G$
 $G \xrightarrow{+2} I$ $H \xrightarrow{+3} J$
 $I \xrightarrow{+3} L$ $J \xrightarrow{+3} M$
 $K \xrightarrow{+4} O$ $L \xrightarrow{+4} P$
73. (b) The relationship is $x: (x^2 - 9)$.
74. (c) The relationship is $x: x(x+1)$
75. (b) $50 = 20 \times 2 + 20/2$, So $100 \times 2 + 100/2 = 250$
76. (c) Sea sickness is to feel ill when you are travelling on a ship or boat.
Similarly, Giddiness is to feel that you are going to fall
77. (c) Waitress is a person whose job is to serve customers in a restaurant.
Similarly, A teacher teaches students in a school.
78. (a)

A R O U N D \Rightarrow R A U O D N

Similarly,

G R O U N D \Rightarrow R G U O D N

79. (b) $\boxed{\text{APP}}$ R O A C H E D \Rightarrow R O A C
 H E D $\boxed{\text{APP}}$

Similarly,

$\boxed{\text{BAR}}$ G A I N E D \Rightarrow G A I N E D
 $\boxed{\text{BAR}}$

80. (c) $8 \times 8 = 64 \times 4 = 256$
 $10 \times 10 = 100 \times 5 = 500$

81. (b) $\frac{21}{3} = 7$
 Similarly, $\frac{574}{x} = 7, x = \frac{574}{7} = 82$

82. (a) A saint practices meditation.
 Similarly,
 A scientist does research.

83. (d) A palace is the official home of a king.

Similarly,

An igloo is a small round house of an Eskima.

84. (c) $A \xrightarrow{+5} F \xrightarrow{+5} K \xrightarrow{+5} P$
 $D \xrightarrow{+5} I \xrightarrow{+5} N \xrightarrow{+5} S$
 $W \xrightarrow{+5} B \xrightarrow{+5} G \xrightarrow{+5} L$
 $O \xrightarrow{+5} T \xrightarrow{+5} Y \xrightarrow{+5} D$
85. (c) $S \xrightarrow{-2} Q$ Similarly $M \xrightarrow{-2} K$
 $I \xrightarrow{-2} G$ $O \xrightarrow{-2} M$
 $N \xrightarrow{-2} L$ $N \xrightarrow{-2} L$
 $G \xrightarrow{-2} E$ $S \rightarrow Q$
 $E \xrightarrow{-2} C$ $T \rightarrow R$
 $R \xrightarrow{-2} P$ $E \rightarrow C$
 $R \rightarrow P$

86. (c) $18/3 - 1 = 5$
 $12/3 - 1 = \boxed{3}$

87. (d)
- | | | | | | |
|--------------|---|--------------|----|--------------|--------------|
| 12 | : | 20 | :: | $\boxed{30}$ | $\boxed{42}$ |
| \downarrow | | \downarrow | | \downarrow | \downarrow |
| (3×4) | | (4×5) | | (5×6) | (6×7) |

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