

Solutions

Given expression,

$$\left(5\frac{1}{3} - 3\frac{2}{3} - 5\frac{10}{11}\right) \div 2\frac{2}{33}$$

$$= \left(\frac{3\times 5 + 1}{3} - \frac{3\times 3 + 2}{3} - \frac{11\times 5 + 10}{11}\right) \div \frac{33\times 2 + 2}{33}$$

$$= \left(\frac{16}{3} - \frac{11}{3} - \frac{65}{11}\right) \div \frac{68}{33}$$

$$= \left(\frac{5}{3} - \frac{65}{11}\right) \div \frac{68}{33}$$

$$=\left(\frac{55-195}{33}\right) \div \frac{68}{33}$$

$$= \left(\frac{-140}{33}\right) \times \frac{33}{68}$$

$$= \left(\frac{-35}{17}\right) = -2\frac{1}{17}$$

2. Ans. C

$$(\sqrt{1444} + \sqrt{3136} + \sqrt{7225}) \div 5 = ?$$

$$(38 + 56 + 85) \div 5 = ?$$

? = 35.8

$$\sqrt{?} = \left[(144)^2 \div 48 \times 18 \right] \div 36$$

$$\sqrt{?} = \left\lceil \frac{20736}{48} \times 18 \right\rceil \div 36$$

$$\sqrt{?} = \frac{7776}{36}$$

$$\sqrt{?} = 216$$

$$\therefore ? = (216)^2$$

? = 46656

4. Ans. A

14.2% of 5500 + 15.6% of ? = 1795

$$\implies \frac{14.2}{100} \times 5500 + \frac{15.6}{100} \times ? = 1795$$

$$\implies$$
 71×11+ $\frac{156}{1000}$ ×?=1795

$$\Longrightarrow \frac{156}{1000} \times ?=1795 -781$$

$$\implies ? = \frac{1014 \times 1000}{156}$$

\implies ? = 6500

Hence, option (A) is correct.

5. Ans. D

Follow **BODMAS** rule to solve this question, as per the order given below,

Step-1-Parts of an equation enclosed in 'Brackets' must be solved first,

Step-2-Any mathematical 'Of' or 'Exponent' must be solved next,

Step-3-Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step-4-Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated. The given expression is: $9 \times 35\%$ of 1500 -

 $(117649)^{1/6} \div 7 = a + 4320$

$$\Rightarrow$$
9 × (35/100) × 1500 - 7 ÷ 7 = a + 4320

$$\Rightarrow$$
9 × 525 – 1 = a + 4320

$$\Rightarrow$$
4725 - 1 = a + 4320
 \Rightarrow a = 4724 - 4320 = 404

6. Ans. A

The pattern is 11^3+1 , 12^3+1 , 13^3+1 , 14^3+1 So the next term is = $15^3+1=3376$

$$1^3 + 1 = 2$$

$$2^{3}-2=6$$

$$3^3+3=30$$

$$4^3-4=60$$

$$5^3 + 5 = 130$$

$$6^3$$
-6=210 7^3 +7=350

$$3*1 + 1^2 = 3 + 1 = 4$$
; $4*2 + 2^2 = 8 + 4 = 12$
 $12*3 + 3^2 = 36 + 9 = 45$; $45*4 + 4^2 = 180 + 16 = 196$

Series Pattern is *5-4,*5+4,*5-4,*5+4

So, 83334 will come at the place of question mark.

10. Ans. B

The pattern is

$$\times 2 - 4, \times 4 - 8, \times 6 - 12, \times 8 - 16, \times 10 - 20 \dots$$

11. Ans. E

I.
$$p^2 - 32p + 156 = 0$$

 $p^2 - 6p - 26p + 156 = 0$
 $p(p-6)-26(p-6) = 0$
 $(p-6)(p-26)=0$



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p=6, 26

II. 5q^2 - 156q + 847 = 0

5q^2 - 35q - 121q + 847 = 0

5q(q-7)-121(q-7)=0

(q-7)(5q-121)=0

q=7, 121/5
```

No relation can be established.

12. Ans. C
I.
$$3p^2 - 75p + 342 = 0$$
 $3p^2 - 57p - 18p + 342 = 0$
 $3p(p-19)-18(p-19) = 0$
 $(p-19)(3p-18) = 0$
 $p=6, 19$
II. $q^3 = 1512 \div (2401)^{1/4}$
 $q^3 = 1512 \div 7$
 $q^3 = 216$
 $q=6$
 $p \ge q$

13. Ans. E I. $2p^2 - 15p - 108 = 0$ $2p^2 + 9p - 24p - 108 = 0$ p(2p+9)-12(2p+9)=0 (p-12)(2p+9)=0 p=-9/2 12 II. $3q^2 - 57q + 252=0$ $3q^2 - 36q - 21q + 252 = 0$ 3q(q-12)-21(q-12)=0 (3q-21)(q-12)=0 q=7, 12

14. Ans. E I. $3p^2 + 49p + 200 = 0$ $3p^2 + 24p + 25p + 200 = 0$ 3p(p+8) + 25(p+8) = 0 (3p+25)(p+8) = 0 P = -25/3, -8 $3q^2 + 9q - 264 = 0$ $3q^2 - 24q + 33q - 264 = 0$ 3q(q-8) + 33(q-8) = 0 (3q+33)(q-8) = 0q = -11, 8

No relation can be established.

No relation can be established.

15. Ans. B
I.
$$2p^2 - 17p - 315 = 0$$
 $2p^2 + 18p - 35p - 315 = 0$
 $2p(p+9) - 35(p+9) = 0$
 $(p+9)(2p-35) = 0$
 $p=-9$, $35/2$
II. $q^2 - 41q + 414 = 0$
 $q^2 - 18q - 23q + 414 = 0$
 $q(q-18) - 23(q-18) = 0$
 $q=18$, 23
 $p < q$

16. Ans. D

Average selling of mobile in year 2013 (24.2+24+30.5+19.8+24+28.5) = 151/6 = 25.16 Average selling of mobile in year 2010 = (21.5+24+32+12+27.5+18) = 135/6 = 22.5 Required difference = (25.16 - 22.5) = 2.66

17. Ans. A

Required percentage = (18/24 *100) = 75%

18 Ans F

Required percentage increase = (24.2 - 24)/24 *100 = 0.83%

19. Ans. C

Total selling of mobile in year 2009 = (24+18+36+12+45+25) = 160Total selling of mobile in year 2010 = (21.5+24+32+12+27.5+18) = 135Total selling of mobile in year 2011 = (24+20.4+28+18.6+25+36) = 152Total selling of mobile in year 2012 = (27.5+24+28+18.5+24+26) = 148Total selling of mobile in year 2013 (24.2+24+30.5+19.8+24+28.5) = 151Total selling of mobile in year 2014 = (32+24+22+20+30+28) = 156So in 2009 total sale of mobile of all brand is maximum.

20. Ans. C

Required percentage = (27.5 - 18.5)/18.5*100 = 48.64%

21. Ans. D

Given A is 50% as efficient as B and C's efficiency is half of (A+B)'s efficiency

22. Ans. C

Required length =
$$\frac{2.5 x + x}{50} - \frac{x}{50} = 16$$

$$2.5x = 50 \times 16$$

 $x = 320$

23. Ans. A

Let CP of 1 article = 1 Rs

SP of 18 articles = CP of 24 Articles = 24 Rs

SP of 24 articles would be = 32 Rs.

Now, to sell it at 36 Rs, he should increase it's SP from 32 + 4 = 36.

4 Rs increment in 32 Rs (SP) ==> 4/32 * 100 = 12.5% increment.



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24. Ans. E

Let the age of A is x and that of B is y

Acc. to question,

$$\frac{x}{v} = \frac{2}{3}$$

$$3x - 2y = 0$$
(I)

According to the second condition,

$$\frac{x+6}{y+6} = \frac{8}{11}$$

$$11x + 66 = 8y + 48$$

$$11x - 8y = -18$$
(II)

On solving Eqs. (i) and (ii), we get

x = 18 and y = 27

So, the age of B = 27 yr

25. Ans. E

Total population of state B over the years

$$= (50+40+60+70+80+90+100)$$
 lakhs = 490 lakhs

Total population of state B in the year 2012 = 40 lakhs Required percentage

$$= \frac{40}{490} \times 100 = 8.16$$

26. Ans. C

Total population of state A in the years 2011, 2012 and 2013 = 40 + 45 + 60 = 145

Total population of state B in the years 2015, 2016 and

2017 = 80 + 90 + 100 = 270

Required ratio = 145:270 = 29:54

27. Ans. A

It is clear from the graph that the per cent rise in the population from the previous year was highest for state B in the year 2013.

28. Ans. B

Percentage growth

$$=\frac{70-60}{60}\times100=\frac{50}{3}=16\frac{2}{3}$$

29. Ans. D

Average population of the state A

$$= \left[\frac{40+45+60+50+70+65+80}{7} \right]$$
 lakhs
$$= \frac{410}{7}$$
 lakhs = 58 lakhs

30. Ans. E

None of these

Milk. water = 5.3. 40 litre mixture contains 25 litre milk and 15 litre water.

Let initially he had 5x+3x = 8x litres of milk.

New ratio after removal of 40 litre mixture and addition of 15 litre pure water is.

$$[5x-25]$$
. $[3x-15+15] = [5x-25]$. $[3x] = 5.4$

Solving \Rightarrow x = 20. New quantity of mixture

$$= 5x-25+3x = 135$$
 litres

31. Ans. B

Amount = Principal + Interest = ₹ (21500 + 7116.5) = ₹ 28616.5

$$A = P \left(1 + \frac{R}{100} \right)^T$$

$$\Rightarrow \frac{28616.5}{21500} = \left(1 + \frac{R}{100}\right)^3$$

$$\Rightarrow \frac{286165}{215000} = \left(1 + \frac{R}{100}\right)^3$$

$$\Rightarrow \frac{1331}{1000} = \left(1 + \frac{R}{100}\right)^3$$

$$\Rightarrow \left(\frac{11}{10}\right)^3 = \left(1 + \frac{R}{100}\right)^3$$

$$\Rightarrow 1 + \frac{1}{10} = 1 + \frac{R}{100}$$

$$\Rightarrow R = \frac{1}{10} \times 100 = 10\%$$

$$\therefore SI = \frac{\text{Principal} \times \text{Rate} \times \text{Time}}{100}$$

$$=\frac{21500\times10\times3}{100}=Rs. 6450$$

32. Ans. A

Speed downstream = $(10.2 \times 60)/18 = 34$ kmph Speed of boat in still water = 34 - 3.5 = 30.5kmph Rate upstream = 30.5 - 3.5 = 27kmph Required time = 121.5/27 = 4.5 hrs Hence option A is correct

33. Ans. C

Let monthly income of Neeraja is Rs. x.

$$\therefore x \times \frac{60}{100} \times \frac{45}{100} = 22950$$

hence,
$$x = \frac{22950 \times 100 \times 100}{60 \times 45}$$





∴Monthly Income x =Rs. 85000 Half = Rs. 42500

34. Ans. E

It's 'None of these'

LCM (24, 36, 18) = 72 units of water.

A fills 3 units of water per min; B fills 2 units; C empties 4 units of water per min.

In 1st three minutes, water filled = 3+2-4=1 unit. In next two minutes = 3+2=5 units.

So, we'll do 72-5 = 67 units will be filled (where C pipe also is opened) = 67*3 = 201 mins

In next two minutes, remaining 5 units filled. Total time = 201+2 = 203 mins

35. Ans. D

5R+5B+5G = 15 balls.

P (at least one ball Green) = 1 - P (No green)

= 1 - [10C2/15C2] = 4/7

36. Ans. D

Only II is true

A>B>C=D, E=C<F<G

A > C < F

I. A > F

Relation can't be established between A&F.

D = C < G

II.G>D (True)

 $B \ge C < F \le G$

Relation can't be established between B&G.

III. B≥G (False)

37. Ans. B

Only I and III are true

H < A < B < D

I. D>H (True)

E > G = H < A

Relation can't be established between A&E.

II.E

H < A < B

III. B>H (True)

38. Ans. E

None is true

D >F > H < C

Relation can't be established between D&C.

I. D>C (False)

G < C < B

II. G>B (False)

E>F>H<C

Relation can't be established between E&C.

III. $E \leq C$ (False)

39. Ans. E

All are true

 $G \ge A \ge B$

I. G>B (True)

 $F \ge A \ge D$

II. $F \ge D$ (True)

E > G > A

III. E>A (True)

40. Ans. D

Only II is true

Relation can't be established between A&E.

I.A>E (False)

G=E < C

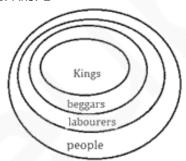
II.C>G (True)

F <u>></u> E <u><</u> C

Relation can't be established between F&C.

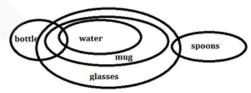
III. F>C (False)

41. Ans. E



Only I & III follows.

42. Ans. C



43. Ans. B

V have Fastrack watch.

PERSON	COLLEGE	WATCH	GENDER	
S	KMC	Reebok	Male	
T	RAMJAS	HMT	Female	
U	JDMC	Rado	Female	
V	DCE	Fastrack	Female	
W	HINDU	Tissot	Male	
X	HANSRAJ	Titan	Male	
Y	SRCC	Casio	Male	

44. Ans. A

U-Rado-JDMC-Female

PERSON	COLLEGE	WATCH	GENDER
S	KMC	Reebok	Male
T	RAMJAS	HMT	Female
U	JDMC	Rado	Female
V	DCE	Fastrack	Female
W	HINDU	Tissot	Male
X	HANSRAJ	Titan	Male
Y	SRCC	Casio	Male





45. Ans. C

UV&T are female members.

PERSON	COLLEGE	WATCH	GENDER	
S	KMC	Reebok	Male	
T	RAMJAS	HMT	Female	
U	JDMC	Rado	Female	
V	DCE	Fastrack	Female	
W	HINDU	Tissot	Male	
X	HANSRAJ	Titan	Male	
Y	SRCC	Casio	Male	

46. Ans. D

The one who has Titan has passed out from Hansraj college.

PERSON	COLLEGE	WATCH	GENDER
S	KMC	Reebok	Male
T	RAMJAS	HMT	Female
U	JDMC	Rado	Female
V	DCE	Fastrack	Female
W	HINDU	Tissot	Male
X	HANSRAJ	Titan	Male
Y	SRCC	Casio	Male

47. Ans. C

X possesses Titan and has passed out from HANSRAJ.

PERSON	COLLEGE	WATCH	GENDER	
S	KMC	Reebok	Male	
T	RAMJAS	HMT	Female	
U	JDMC	Rado	Female	
V	DCE	Fastrack	Female	
W	HINDU	Tissot	Male	
X	HANSRAJ	Titan	Male	
Y	SRCC	Casio	Male	

48. Ans. B

Lop -Are

Eop - laws

Aop - traders

Fop – above Cop – were Bop – Developers

Gop – profitable

Uop – following

Qop – stopped

Jop – maps

49. Ans. A

Lop -Are

Eop - laws

Aop - traders

Fop – above

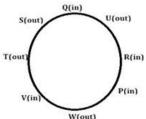
Cop – were

Bop - Developers

Gop – profitable Uop – following

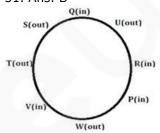
Qop – stopped Jop – maps

50. Ans. A



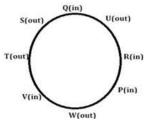
P	Orange
Q	White
R	Blue
S	Black
Т	Green
U	Pink
V	Red
W	Yellow

51. Ans. B



P	Orange
Q	White
R	Blue
S	Black
Т	Green
U	Pink
V	Red
W	Yellow

52. Ans. C

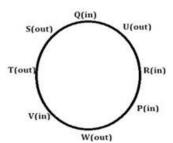


P	Orange
Q	White
R	Blue
S	Black
T	Green
U	Pink
V	Red
W	Yellow



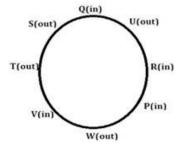


53. Ans. D



P	Orange
Q	White
R	Blue
S	Black
T	Green
U	Pink
V	Red
W	Yellow

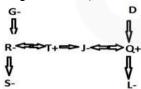
54. Ans. C



P	Orange
Q	White
R	Blue
S	Black
Т	Green
U	Pink
V	Red
W	Yellow

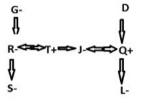
55. Ans. C

From the diagram, it clear that T is husband of G's daughter. Thus, T is son-in-law of G.



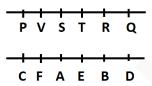
56. Ans. B Hence, from diagram again, S is daughter of J's brother. Thus, S is J's niece.

According to the diagram:



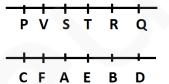
57. Ans. D

P & D sits at the extreme ends of the rows



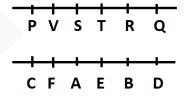
58. Ans. B

Two person sits between V & R



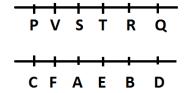
59. Ans. B

T related to D following the same pattern



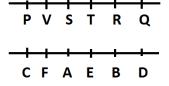
60. Ans. C

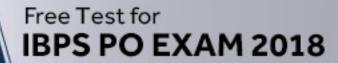
F faces the one who is second to the right of T



61. Ans. E

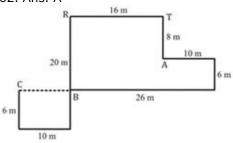
E - Q the one that does not belong to that group





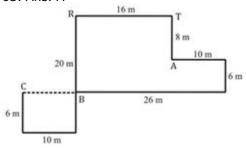


62. Ans. A



Rahul is to the West direction in respect to the Gaurav. Rahul stops at C point and Gaurav at B point.

63. Ans. A



distance between point C and Point B is 10m.

64. Ans. B A likes Economics

Floor	Person	Subject
7	В	Marketing
6	A	Economics
5	F	Reasoning
4	D	Gk
3	Е	English
2	G	Computer
1	С	Math

65. Ans. C

Two persons live between the one who likes Math and the one who likes Gk.

Floor	Person	Subject	
7	В	Marketing	
6	A	Economics	
5	F	Reasoning	
4	D	Gk	
3	Е	English	
2	G	Computer	
1	С	Math	

66. Ans. A B likes Marketing.

Floor	Person	Subject	
7	В	Marketing	
6	A	Economics	
5	F	Reasoning	
4	D	Gk	
3	Е	English	
2	G	Computer	
1	С	Math	

67. Ans. A D likes GK.

Floor	Person	Subject
7	В	Marketing
6	A	Economics
5	F	Reasoning
4	D	Gk
3	Е	English
2	G	Computer
1	С	Math

68. Ans. C

E likes English and lives on the third floor.

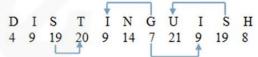
Floor	Person	Subject
7	В	Marketing
6	A	Economics
5	F	Reasoning
4	D	Gk
3	E	English
2	G	Computer
1	С	Math

69. Ans. B

Veena's rank is 17th from the bottom means Veena's rank is 4th from the top. Rohan's rank is exactly between 4th and 12th, ie 8th.

Hence Option B is correct.

70. Ans. E



Hence four such pairs of letters are formed.

71. Ans. C

When Facebook labeled Winthrop's story, which was published by Newport Buzz, as "fake news", a bunch of conservative groups took it upon themselves to share this news as much as possible because they felt that Facebook was trying to silence the blog. Hence, the traffic to the piece skyrocketed and the story gained popularity.

72. Ans. B

In the 2nd paragraph of the passage it is mentioned that the news article by Newport Buzz which says that a large number of Irish people were brought to the US as slaves was false. Hence, B is the correct answer.

73. Ans. E

To stop the misinformation, Facebook has partnered with third party fact-checkers and fake news articles are being publicly flagged now. Also, since Facebook was accused of helping Trump win the elections, a feature has been introduced that allows users to report fake news, which is then reviewed by Facebook's fact-checkers. Hence, E is the correct answer.





74. Ans. D

Facebook's initiatives to stop misinformation are failing because the articles that are debunked by fact-checkers often remain on the site without the "disputed" tag for a long time, until they go viral. They are tagged after the damage has been done. The extent of effectiveness of the tag is yet to be determined. Hence, D is the correct answer.

75. Ans. C

Facebook faced criticism that it may have helped Donald Trump win the elections. Hence, C is the correct answer.

76. Ans. D

Both ABC News and Associated Press are the fact-checking partners of Facebook. It can be inferred from the following statement of the passage, 'Articles formally debunked by Facebook's fact-checking partners – including the Associated Press, Snopes, ABC News and PolitiFact – frequently remain on the site without the "disputed" tag warning users about the content.'

77. Ans. A

The above passage talks about Facebook's failure in stopping misinformation. While a number of strategies have been introduced by Facebook to stop misinformation, none of them have worked very effectively so far. Hence, A is the correct answer.

78. Ans. B

The author analyses the issue by discussing the views of experts and fake news authors. Hence, B is the correct answer.

79. Ans. B

Propaganda means information which is biased or false. The opposite of false news is truth.

Hence, B is the correct answer.

80. Ans. A

Concerted means collaborative.

Hence, option A 'Collective' is the correct answer.

81. Ans. C

The use of 'have' in the third part of the sentence is incorrect. It should be replaced by 'has' (if talking about present) or 'had' (if talking about past).

82. Ans. B

Instead of the incorrect preposition "of" the correct preposition "from" should be used in segment B. The "vivid depictions" are implied to be away from the "harder logistics and daily sufferings" and hence this detachment should be described using the correct preposition "from".

83. Ans. D

Replace 'Japan' with 'Japan's'. Use the apostrophe to show possession. To show possession with a singular noun, add an apostrophe plus the letter s.

84. Ans. D

In D part, use of 'Indigenousness' is incorrect.

'Indigenous' will replace 'indigenousness'.

'Indigenousness' is a noun and so is Tsunami. According to the context of the given sentence, adjective should be used before 'tsunami'. So 'indigenous' is correct word to use as it is an adjective which perfectly defines Tsunami. Hence D is the correct choice.

85. Ans. D

'which affect' should be replaced by 'which affects' since it refers to 'an administrative agency'.

86. Ans. A

Refer to the last question of the series.

87. Ans. C

Refer to the last question of the series.

88. Ans. E

Refer to the last question of the series.

89. Ans. B

Refer to the last question of the series.

90. Ans. D

The passage gives the statistical details regarding the expected trade deficit and how the government is planning to tackle this. Sentence C introduces the idea, quoting the figures stated in the PM's Economic Advisory Council. It foresees a trade deficit of 10.4 percent. This 10.4 percent is divided into 7 and 3 per cent respectively and explained in detail in sentences B and F. The deficit will be a little over 3 per cent. How is the government planning to tackle this? The answer is in A. Hence A follows F. E follows A as it says how the government is planning to combat inflation and keep the domestic prices from rising. But will this work? May be not which is what sentence D tells us which comes as a conclusion. The proper sequence of the sentences should be CBFAED.

91. Ans. D

The word preserve is most appropriate in the given context because the world's freshwater resources need to be preserved, The word safeguards which means sheltered or shielded is not appropriate in the given context.





92. Ans. B

The word 'concomitant' which means naturally accompanying or associated is the most appropriate for the given blank. The sentence says consumption is concomitant with the growth in income and population. The remaining options are inappropriate in comparison.

93. Ans. E

Water cannot be referred to as a device, mechanism, aid or tool for food production, it can be best described as an input (what is put or taken in by a system or process).

94. Ans. A

The world's water resources are under 'strain' (a severe demand on strength or resources) due to increased consumption. Hence choice 1 aptly suits the given context.

95. Ans. C

The monsoon patterns are best described as "unpredictable' because the change in climate results in "unpredictable monsoon patterns. Hence choice 3 is most appropriate.

96. Ans. B

Depletion of water resources is a cause of distress. The words malaise, tribulation, adversity and grief are too strong words in the context. Further the word grief indicates the mourning of something more personal.

97. Ans. D

Acute shortage of water results in escalating (increasing) conflicts. Hence choice 4 is apt. The remaining options do not collocate with the word conflicts.

98. Ans. D

The attempt to save water, albeit small, should be 'significant' to deliver more water for the people.

99. Ans. C

improved farming techniques which include methods which can save water are required to overcome the shortage of water which many regions of the world are now experiencing. Therefore, the word 'improved is most appropriate in the context.

100. Ans. E

The word "volume' is most appropriate here since we are talking about the water lost due to evaporation. The remaining options are inappropriate in comparison.

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