

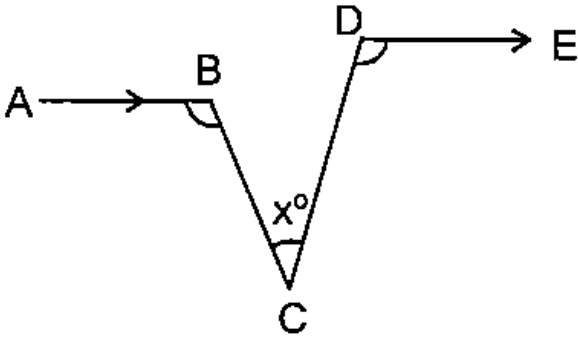
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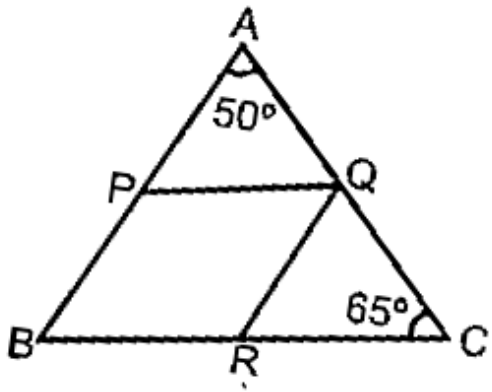
PRINCE SAINIK SCHOOL

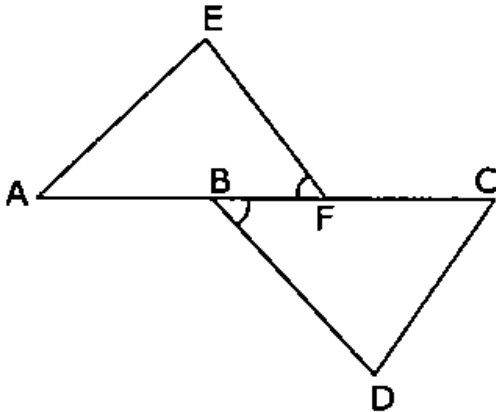
ADMISSION TEST - 2021

Date : **21 March, 2021 (Sunday)**

Time : **10:00 AM to 12:00 Noon**

- $(-1)^{234} \times (-5)^{546} \times (-2)^{786}$ results in a
 (a) Negative integer (b) Positive integer
 (c) Zero (d) None of these
- Which parts contain the fractions in ascending order?
 (a) $\frac{11}{14}, \frac{16}{19}, \frac{19}{21}$ (b) $\frac{16}{19}, \frac{11}{14}, \frac{19}{21}$
 (c) $\frac{11}{14}, \frac{19}{21}, \frac{16}{19}$ (d) $\frac{16}{19}, \frac{19}{21}, \frac{11}{14}$
- Find the value of $4\frac{5}{6} - 2\frac{3}{8} + 3\frac{7}{12}$
 (a) $\frac{145}{24}$ (b) $\frac{145}{12}$
 (c) $\frac{92}{21}$ (d) $\frac{145}{4}$
- If $1.5x = 0.04y$, then the value of $\left(\frac{y-x}{y+x}\right)$ is:
 (a) $\frac{730}{77}$ (b) $\frac{73}{77}$
 (c) $\frac{7.3}{77}$ (d) None of these
- The complementary and supplementary angles of an angle are in the ratio 2 : 5 respectively. Find the measure of that angle
 (a) 60° (b) 30°
 (c) 90° (d) 45°
- In the adjoining figure, $\angle ABC = 100^\circ$, $\angle EDC = 120^\circ$ and $AB \parallel DE$. Then, find $\angle BCD$.

 (a) 40° (b) 100°
 (c) 75° (d) 60°
- In a $\triangle ABC$, $\angle B - \angle C = 22^\circ$ and $\angle C - \angle A = 7^\circ$ Find $\angle A$ of the triangle.
 (a) 48° (b) 82°
 (c) 45° (d) 46°

- In $\triangle ABC$, Side $AB \parallel QR$ and side $BC \parallel PQ$, $m\angle BAC = 50^\circ$, $m\angle ACB = 65^\circ$ Find $m\angle BPQ$.

 (a) 155° (b) 65°
 (c) 115° (d) 95°

- In the given figure it is given that $AB = CF$, $EF = BD$ and $\angle AFE = \angle DBC$. Then congruence of $\triangle AFE$ and $\triangle CBD$ by

 (a) AAA congruence criterion
 (b) SSS congruence criterion
 (c) ASA congruence criterion
 (d) SAS congruence criterion

- $\triangle ABC \cong \triangle EFG$, $AB = 15$ cm, $BC = 20$ cm, $AC = 25$ cm and $FG = 3x - 7$, then value of x is given by
 (a) 7.3 cm (b) 9 cm
 (c) 10.6 cm (d) 20 cm
- The expression $x^{a(b-c)} \cdot x^{b(c-a)} \cdot x^{c(a-b)}$ simplifies to:
 (a) -1 (b) 0
 (c) 1 (d) 2

- $\left(\frac{1}{2}\right)^3 \times \left(\frac{-3}{5}\right)^3 \times \left(\frac{-4}{9}\right)^2$ is _____
 (a) $\frac{-2}{375}$ (b) $\frac{2}{375}$
 (c) $\frac{-6}{375}$ (d) $\frac{6}{375}$

13. The product of the reciprocal of $\frac{x+3}{x+2}$ and $\frac{x^2-4}{x^2-9}$ is

(a) $\frac{1}{(x-3)(x-2)}$ (b) $\frac{x-2}{x-3}$
 (c) $\frac{x-3}{x-2}$ (d) $(x-3)(x-2)$

14. If $\frac{a}{b} + \frac{b}{a} = 4$, find the value of $\frac{a^2}{b^2} + \frac{b^2}{a^2}$

(a) 16 (b) 18
 (c) 14 (d) 20

15. If $a + \frac{1}{a} = 2$, then $a - \frac{1}{a}$ will be:

(a) 0 (b) 4
 (c) -2 (d) 2

16. Reduced to lowest terms, $\frac{a^2 - b^2}{ab} - \frac{ab - b^2}{ab - a^2}$ is equal to:

(a) $\frac{a}{b}$ (b) $\frac{a^2 - 2b^2}{ab}$
 (c) a^2 (d) $a - 2b$

17. Devang earned scores of 97, 73, and 88 respectively in his three examinations. If he scored 80 in the fourth examination, then his average score will be

(a) 81 (b) 84.5
 (c) 100 (d) 71

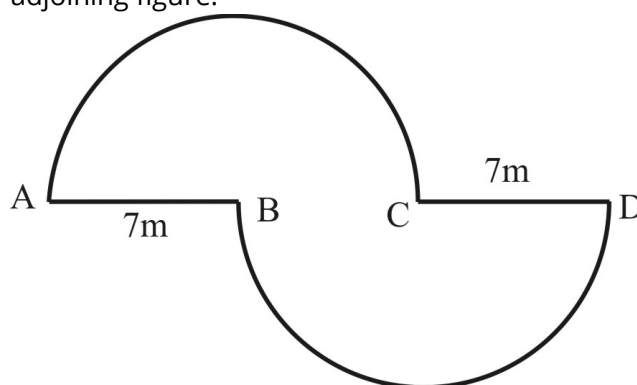
18. Which of the following has the same mean, median and mode?

(a) 6, 2, 5, 4, 3, 4, 1 (b) 4, 2, 2, 1, 3, 2, 3
 (c) 2, 3, 7, 3, 8, 3, 2 (d) 4, 3, 4, 3, 4, 6, 4

19. The area of a square is 225 sqm. Then, the perimeter of the square is:

(a) 50 m (b) 15 m
 (c) $15\sqrt{2}m$ (d) 60 m

20. If $AB = BC = CD$ then find the perimeter of adjoining figure.



(a) 58m (b) $\frac{44}{7}m$
 (c) 142 m (d) None of these

21. If $\frac{4}{x+1} + \frac{5}{x+3} = \frac{9}{x+2}$ then the value of x is:

(a) -7 (b) 7/2
 (c) 7 (d) -14

22. If $2 + \frac{2x-3}{2x+3} = \frac{3x+4}{x+2}$ then the value of x is:

(a) -3 (b) -2
 (c) 3 (d) -4

23. If $A : B = 3 : 4$, $B : C = 2 : 3$ then, $A : C =$

(a) 1 : 2 (b) 5 : 3
 (c) 1 : 3 (d) 2 : 3

24. If $x : y = 5 : 2$, then $(8x + 9y) : (8x + 2y)$ is:

(a) 22 : 29 (b) 26 : 61
 (c) 29 : 22 (d) 61 : 26

25. What is 20% of 50% of 60% of 200 ?

(a) 12 (b) 18
 (c) 120 (d) 180

26. Price of shirt decreased from Rs. 80 to Rs. 60 The percentage of decreased price is:

(a) 25% (b) 30%
 (c) 40% (d) 45%

27. A watch is sold for Rs. y at 10 % loss. Cost Price of the watch is:

(a) $Rs. \frac{100 \times y}{90}$ (b) $Rs. \frac{90 \times y}{1000}$
 (c) $Rs. \frac{100 \times y}{100}$ (d) $Rs. \frac{110 \times y}{100}$

28. Kishore purchased a cycle for Rs. 1750 and sold it for Rs. 1925. His profit percent is:

- (a) $9\frac{1}{10}$ (b) 10
(c) 25 (d) 110
29. Find the simple interest that Ram has to pay if he borrows Rs. 500 for a period of 5 years at the rate of 5% p.a.
(a) Rs. 200 (b) Rs. 150
(c) Rs. 100 (d) Rs. 125
30. The rate at which a sum becomes four times of itself in 15 years at S.I., will be:
(a) 15% (b) $17\frac{1}{2}\%$
(c) 20% (d) 25%
31. The CAT drank the MILK from the SAUCER which kind of nouns are the words in capitals?
(a) Abstract, Common, Common.
(b) Proper, Common, Common
(c) Common, Uncountable, Common
(d) Common, Compound, Common
32. The feminine gender of horse is-
(a) Colt (b) Mare
(c) Filly (d) Stag
33. The Plural form of mouse is-
(a) Mice (b) Mouses
(c) Mices (d) Mouse
34. She wants to exchange **this** for **that** and **these** for **those**. Pronoun given in bold is of what kind?
(a) Demonstrative (b) Indefinite
(c) Reciprocal (d) Interrogative
35. Rahul is not as as suman.
(a) Clever (b) Cleverer
(c) More clever (d) Cleverest
36. How oranges did you put in the box?
(a) Much (b) Little
(c) Few (d) Many
37. It rained heavily and spoiled my dress entirely. (Choose the verb that heavily. qualifies.)
(a) Rained (b) Spoiled
(c) Dress (d) Entirely
38. The show will begin soon
(a) Adverb of frequency (b) Adverb of time
(c) Adverb of place (d) Adverb of quantity
39. The small girl eagerly licked her ice-cream cone
(a) Adverb of quantity (b) Adverb of number
(c) Adverb of manner (d) Adverb of time
40. Did you that movie? (use the correct verb)
(a) Watched (b) Watches
(c) Watchs (d) Watch
41. She lived here all her life.
(a) Is (b) Has
(c) Have (d) Are
42. Some of the cake left on the table (Subject- verb- Agreement)

- (a) Are (b) Was
(c) Will (d) Have
43. Each of the boys awarded.
(a) Was (b) Were
(c) Are (d) Being
44. I watch the movie last night as my TV was broken.
(a) Could (b) Can't
(c) Couldn't (d) Was not
45. It be very expensive, but it's much better than the others.
(a) May (b) Will
(c) Shall (d) Would
46. What are the main ingredients this casserole? (Choose appropriate prepositions)
(a) About (b) To
(c) Of (d) At
47. She was sitting her two sisters.
(a) Between (b) Among
(c) In (d) On
48. Either you your sister had done this. (Choose appropriate conjunction)
(a) As (b) Or
(c) And (d) But
49. She was sad she lost her job.
(a) Because (b) Or
(c) And (d) While
50. Go clean your room (Identify the type of sentence)
(a) Simple
(b) Compound
(c) Complex
(d) Compound-Complex
51. SI unit of acceleration is-
(a) m/s^2 (b) m/s
(c) ms (d) ms^2
52. If 2C charge is transferred in 4 Sec. through a conductor. Then flowing current is-
(a) 2A (b) 3A
(c) 0.5A (d) 8A
53. If an object of mass 5kg is moving with an acceleration of $3m/s^2$. Then the total force on the object is-
(a) 10 N (b) $5/3$ N
(c) 15N (d) 20 N
54. Light always travels in-
(a) Straight line (b) Circular path
(c) Zig-Zag Path (d) Random motion.
55. Light is a form of-
(a) Time (b) Force
(c) Energy (d) Velocity
56. Which is a method to prevent rust?
(a) Crystallization (b) Sedimentation
(c) Galvanisation (d) None of these
57. Out of these gases which one is used in fire extinguishers-
(a) CO_2 (b) SO_2
(c) NO_2 (d) H_2S
58. Which of the following is not a type of silk?
(a) Mulberry silk (b) Tassar silk
(c) Mooga silk (d) Moth silk
59. What will happen if carbon dioxide is passed through lime water?
(a) Calcium carbonate is formed
(b) The lime water turns milky
(c) Both of these
(d) None of these
60. Silk is derived from-
(a) Cocoon (b) Pupa
(c) Egg (d) Moth
61. In the absence of which of the following will photosynthesis not occur in leaves?
(a) Guard cell (b) Chlorophyll
(c) Vacuole (d) Ribosome

- 62.** The coldest region on earth is the.
(a) Polar region (b) Tropical region
(c) Temperate region (d) Coastal region
- 63.** The ovaries of different flower may contain.
(a) Only one ovule (b) Many ovule
(c) One to Many ovule (d) Only two ovule
- 64.** Which of the following is not prepared from the wood obtained from forest?
(a) Paper (b) Thermocol
(c) Match sticks (d) Plywood
- 65.** On which day world water day is celebrated?
(a) 14 November (b) 2 October
(c) 5 September (d) 22 March
- 66.** According to the 2011 Census data women form of the population.
(a) 50.7 (b) 45.5
(c) 48.5 (d) 60.5
- 67.** Beti Bachao Beti Padhao (Save girl child and teach girl child) Programme launched in
(a) 2013 (b) 2014
(c) 2015 (d) 2016
- 68.** A Situation when less then half the number in a group supports a decision or an idea is called
(a) Majority (b) Minority
(c) Constituency (d) Group
- 69.** Thinking of one self and other persons as worthy of respect
(a) Decorum (b) Respect
(c) Honour (d) Dignity
- 70.** Joothen is
(a) Comics book (b) Biograpy
(c) Auto biography (d) None of above
- 71.** A person who makes maps
(a) Map writer (b) Cardiographer
(c) Carto grapher (d) Geographer
- 72.** A place where documents and manuscripts are stored
(a) Office (b) Museum
(c) Archive (d) All the above
- 73.** Dantidurga over threw
(a) Parthihara king (b) Chalukys King
(c) Rashtrakuta King (d) Matsye king
- 74.** The Mughals were proud of their
(a) Genghis Khan (b) Mongol
(c) Timure (d) All the above
- 75.** had writeen Akbar nama
(a) Mirza hakim (b) Abul Fazal
(c) Birbal (d) None of the above
- 76.** The Tajmahal in Agra Completed in
(a) 1607 (b) 1642
(c) 1648 (d) 1650
- 77.** Guru Nanak was born at
(a) Lahore (b) Multan
(c) Talwandi (d) Amritsar
- 78.** Founder of Hyderabad was.
(a) Nizam-ul-Mulk Asaf Jah
(b) Farrukh Siyar
(c) Murshid Quli Khan
(d) Shah Alam
- 79.** World Water day is celebrated on
(a) 10 March (b) 23 March
(c) 21 March (d) 22 March
- 80.** The place in the crust where the movement starts is called.....
(a) The epicentre (b) The focus
(c) Lithos phere place (d) All the above

81. Directions : Find the missing terms.

6, 12, 23, 44, 85, ?

- (a) 166 (b) 174
(c) 165 (d) 168

82. 92, 23, 27, 9, 12, 6, ?

- (a) 20 (b) 16
(c) 8 (d) 10

83. 256, 125, 60, ? 12.5

- (a) 26 (b) 40
(c) 28 (d) 35

84. Directions : What comes in place of question mark(s) in the following letter series?

ATL, BUM, CVN, DWO, ?

- (a) EZP (b) EYQ
(c) EFP (d) EXP

85. MAAL, AALM, ALMA, LMAA, ?

- (a) AMLA (b) MAAL
(c) AAML (d) LAAM

86. A3P, C5N, E8K, G12G, ?

- (a) I16D (b) I17B
(c) I17D (d) J16B

87. $\begin{array}{ccccc} & 16 & & 16 & & 25 \\ 24 & \textcircled{8} & 20 & 81 & \textcircled{12} & 36 & 64 & \textcircled{?} & 49 \\ & 4 & & 11 & & & & 31 \end{array}$

- (a) 11 (b) 13
(c) 15 (d) 17

88.

13	8	10
16	22	31
21	?	9

- (a) 20 (b) 21
(c) 22 (d) 23

89.

B	Y	X
D	W	?
F	U	T

- (a) V (b) C
(c) U (d) Z

90. Directions : If the given interchanges are made in signs and numbers, then which one of the four equations would be correct?

Given interchanges signs '+' and '-', numbers '5' and '8'.

- (a) $82 - 35 + 55 = 2$ (b) $82 - 35 + 55 = 102$
(c) $85 - 38 + 85 = 132$ (d) $52 - 35 + 55 = 72$

91. Directions : In each of the following questions if the given interchanges are made in signs and numbers, which one of the four equations would be correct?

Given interchanges: Signs + and - and numbers 4 and 8

- (a) $4 + 8 - 12 = 16$ (b) $4 - 8 + 12 = 0$
(c) $8 + 4 - 12 = 24$ (d) $8 - 4 + 12 = 8$

92. Directions: Arrange the following words as per order in the dictionary:

1. Billion 2. Bifurcate
3. Bilateral 4. Bilirubin

- (a) 2, 1, 3, 4 (b) 4, 3, 2, 1
(c) 2, 3, 4, 1 (d) 2, 3, 1, 4

93. Directions : In each of the following questions, arrange the given words in the sequence in which they occur in the dictionary and then choose the correct option.

1. Preach 2. Praise 3. Precinct 4. Precept 5. Precede

- (a) 2,1,5,4,3 (b) 2,1,3,4,5
(c) 1,2,5,4,3 (d) 2,5,1,4,3

94. Directions: In each of the following questions, a word has been given followed by four other words, one of which cannot be formed by using the letters of the given word. Find that word.

CONSTRUCTION

- (a) SUCTION (b) COINS
(c) CAUTION (d) NOTION

95. If 'MEAT' is written as 'TEAM', then 'BALE' is written as

- (a) ELAB (b) EABL
(c) EBLA (d) EALB

96. If 'REASON' is coded as 5 and 'BELIEVED' as 7, what is the code number for 'GOVERNMENT'?

- (a) 10 (b) 6
(c) 9 (d) 8

97. If 'MILK' is called 'CURD', 'CURD' is called 'SALT'; 'SALT' is called 'SUGAR', 'SUGAR' is called 'WATER', then what is used to mean tea sweet?

- (a) SALT (b) CURD
(c) SUGAR (d) WATER

98. If each direction is rotated by 315° clockwise, then which direction will north be pointing?

- (a) North-West (b) North-East
(c) North (d) South-West

99. If North-West become North, North-East become East and so on, What will South become?

- (a) North-East (b) South-East
(c) South (d) South-West

100. A clock is so placed that at 12:00 noon it's minute hand points towards South-West. In Which direction does it's Hour hand point at 1 : 30 pm?

- (a) North (b) South
(c) East (d) West



Prince Sainik School Admission Test

Final Answer Key

Class - VIII

Date : 21-03-2021

Que	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Ans	2	1	1	2	2	1	1	3	4	2	3	1	3	3	1	1	2	4	4	1	3	1	1	3	1
Que	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Ans	1	1	2	4	3	3	2	1	1	1	4	1	2	3	4	2	2	1	3	1	3	1	2	1	1
Que	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Ans	1	3	3	1	3	3	1	4	3	1	2	1	3	2	4	2	3	2	4	2	2	3	2	4	2
Que	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Ans	3	3	1	4	1	1	3	3	4	2	2	2	1	1	2	2	3	1	3	4	3	4	1	4	4