

BUDHA DAL PUBLIC SCHOOL PATIALA
FINAL EXAMINATION (19 February 2026)
MATHEMATICS

Class - VII (Set - A)

Class - VII (Set - B)

Time Allowed: 3 hours

Maximum Marks: 80

Instructions:

1. All questions are compulsory.
2. Section - A : Q.No. 1 to 10 carry 1 mark each
3. Section - B : Q.No. 11 to 20 carry 2 marks each
4. Section - C : Q.No. 21 to 30 carry 3 marks each
5. Section - D : Q.No. 31 to 35 carry 4 marks each

SECTION-A

1. The mode is always one of the numbers in a data.
a) Yes b) No
2. Two angles, sum of whose measure is 180° are called.
a) Adjacent angles b) Supplementary angles c) Complementary angles d) None of these
3. 8% is equivalent to the fraction
a) $\frac{1}{25}$ b) $\frac{2}{25}$ c) $\frac{1}{100}$ d) None of these
4. Which of the following rational number is positive?
a) $-\frac{5}{11}$ b) $-\frac{13}{11}$ c) $\frac{1}{-9}$ d) $\frac{-6}{-31}$
5. 2% of 200 is
a) 100 b) 4 c) 2 d) 0.04
6. _____ is a line segment that connects a vertex of the triangle of the midpoint of the opposite side.
a) Median b) Altitude c) None
7. $(9^2)^4$ is equal to
a) 9^8 b) 18^4 c) 9 d) 9^6
8. The two interior opposite angles of an exterior angle of a triangle are 60° and 80° . Find measure of exterior angle.
a) 20° b) 140° c) 150° d) 120°
9. The solution of $2y + 3 = 7$ is
a) -2 b) 2 c) 3 d) 4
10. The value of the expression $1^0 + 2^3 + 4^2$
a) 5^0 b) 5^2 c) 5^1 d) 5^3

SECTION-B

11. Which one is smaller 8^2 or 2^8 ?
12. a) Show $-\frac{3}{7}$ on a number line.

b) Fill in the boxes with correct symbol out $>$, $<$ and $=$

(i) $\frac{3}{-8} \square \frac{-6}{16}$ (ii) $\frac{3}{12} \square \frac{-1}{4}$

13. Convert the following equations in statement form

a) $\frac{m}{5} - 2 = 7$ b) $3p + 2 = 9$

14. Selling price of a toy car is Rs. 540. If the profit made by the shopkeeper is 25%. what is the cost price of this toy car?

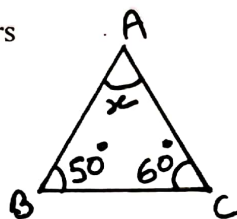
15. A batsman scored the following numbers of runs in six innings

36, 35, 50, 46, 60, 55

Calculate mean runs scored by him in an inning

16. a) The length of two sides of a triangle are 6cm and 8cm. Between which two numbers can length of third side fall?

b) Find value of x in given figure.



17. Solve the following equation:

a) $12p - 5 = 25$ b) $\frac{p}{4} = 9$

18. a) If 65% of students in a class have a bicycle, what percent of student do not have bicycle?

b) 8% of children of a class of 25 like getting wet in the rain. How many children like getting wet in the rain?

19. The ages in years of 10 teachers of a school are: 32, 41, 28, 54, 35, 26, 23, 33, 38, 40

a) What is age of oldest teacher and that of the youngest teacher?

b) What is range of the ages of the teachers?

20. List four rational number between

$\frac{-4}{5}$ and $\frac{-1}{3}$

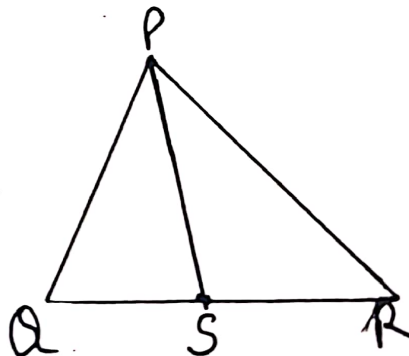
SECTION-C

21. a) Write exponential form for $8 \times 8 \times 8 \times 8$ taking base as 2

b) $(6^2 \times 6^4) \div 6^3$

22. PS is median of a triangle PQR

Is $PQ + QR + PR > 2PS$?



A-2

23. a) The population of a town increases from 1,80,000 to 2,25,000 in a year. Find percentage increase in the population of the town.
b) Convert each part of ratio to percentage 2:3
24. Tell whether the statement is true or false
a) The mean is one of the numbers in a data
b) Range is always a smallest number in a data
c) The median is always one of the numbers in a data
25. The age of Ankur's father is 7 years more than three times Ankur's age. If Ankur's father is 64 years old, then find Ankur's age.
26. Solve the following :
a) $\frac{-8}{15} + \left(\frac{-2}{3}\right)$ b) $\frac{-3}{11} - \left(\frac{-9}{2}\right)$ c) $\frac{-8}{17} \times \frac{68}{24}$
27. Fill in the blanks
a) The longest side of right angled triangle is called _____.
b) A triangle in which all three sides are equal is called _____ triangle.
c) Name a triangle in which two altitudes of a triangle are two of its sides.
28. a) Arrange given rational number in ascending order
 $\frac{-10}{9}, \frac{2}{9}, \frac{5}{12}, \frac{7}{18}$
b) Reduce the following to standard form
(i) $\frac{-7}{21}$ (ii) $\frac{-24}{15}$
29. a) Find mode and median of data 13, 16, 12, 14, 19, 12, 14, 13, 14
b) Organise the following marks in a class assessment in a tabular form using tally marks.
4, 6, 7, 5, 3, 5, 4, 5, 2, 6, 2, 5, 1, 9, 6, 5, 8, 4, 6, 7
30. Solve the following equation by trial and error methods
 $5p - 2 = 23$

SECTION-D

31. The performance of students in 1st Term and 2nd Term is given. Draw a double bar graph choosing appropriate scale and answer the following:

Subject	English	Hindi	Maths	Science	S.Science
1 st Term (MM 100)	67	72	88	81	73
2 nd Term (MM 100)	70	65	95	85	75

- a) In which subject, has child improved his performance most?
b) In which subject is improvement least?

32. Find perimeter of rectangle whose length is 12m and a diagonal is 15m.

33. a) Express the following number in standard form

864000

b) Express 1024 as a ~~product of prime~~ factors in ~~exponential~~ form

c) Write 279402 in expanded form

Case Study - 1

34. Radhika said that they were going to buy a new scooter. Priya asked her whether they had the money to buy it. Radhika said her father was going to take a loan from a bank.

On the basis of given information, answer the following questions by choosing the correct option from the given four options in each question:

1) For keeping the borrowed money for some time, the borrower has to pay some extra money to the bank. This extra money is known as

a) Principal b) Rate of Interest c) Interest d) Time

2) The money borrowed from the bank is known as

a) Principal b) Rate of Interest c) Interest d) Time

3) What is formula to calculate simple interest

a) $\frac{P \times R \times T}{100}$ b) $\frac{R \times T}{P \times 100}$ c) $\frac{P \times T}{R \times 100}$ d) $\frac{100}{P \times R \times T}$

4) What is the formula to calculate amount?

a) Amount = Principal + Rate of Interest

b) Amount = Principal + Time

c) Amount = Rate of Interest + Simple Interest

d) Amount = Principal + Simple Interest

35. On the basis of given figure answer the following questions.

In given figure a is parallel to b and c is transversal

1) Write one pair of corresponding angles

2) Write one pair of vertically opposite angles

3) Name the following angles

a) $\angle 2 = \angle 8$ b) $\angle 2 + \angle 5 = 180^\circ$

