

BUDHA DAL PUBLIC SCHOOL PATIALA
FINAL EXAMINATION (3 March 2026)
MATHEMATICS
Class - VI (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. An angle which is greater than 90° but less than 180° is called _____.
a) Acute angle b) Obtuse angle c) Reflex angle d) Right angle
2. A line has _____ end points.
a) 0 b) 1 c) 2 d) infinite
3. Formula for finding the perimeter of a Regular Octagon?
a) $5 \times \text{side}$ b) $6 \times \text{side}$ c) $7 \times \text{side}$ d) $8 \times \text{side}$
4. Area of square having side 3 cm is
a) 9 cm^2 b) 6 cm^2 c) 12 cm^2 d) 15 cm^2
5. A fraction whose numerator is greater than denominator is called
a) Proper fraction b) Mixed fraction c) Unit fraction d) Improper fraction
6. Which of the following fraction is the greatest?
b) $\frac{1}{8}$ b) $\frac{7}{8}$ c) $\frac{4}{8}$ d) $\frac{6}{8}$
7. How many line of symmetry does an Isosceles triangle have?
a) 0 b) 1 c) 2 d) 3
8. Which of the following alphabet has only vertical line of symmetry?
a) A b) H c) S d) K
9. $-4 + 7 =$ ____
a) +11 b) -11 c) +3 d) -3
10. Which number is to the left of -2 on number line?
a) -3 b) 1 c) -1 d) 0

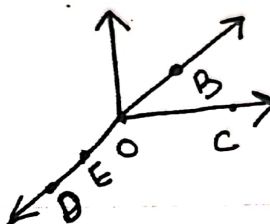
SECTION-B

11. Write the integers in ascending order
a) -6, 11, 16, -20, 7 b) 14, -12, -3, -14, 4

12. Evaluate using token method
a) $9 - (+5)$ b) $+2 - (+6)$
13. a) Represent $\frac{127}{9}$ on a number line.
b) Express $\frac{83}{9}$ as mixed fraction.
14. Find the equivalent fraction of $\frac{24}{36}$ with denominator 9.
15. Find the perimeter of an Isosceles triangle having equal sides 7cm each and third side of 8cm.
16. The area of a rectangular garden 30m long is 600 sq.m. Find the width of the garden.
17. Using Protractor to draw angles having the following degree measures.
a) 75° b) 112°

18. In the adjoining figure, name

- a) Five points
b) A line
c) Four rays
d) Five line segments



19. a) Minimum order of rotational symmetry is _____
b) Order of rotational symmetry in Rectangle and Square are _____ and _____ respectively.

20. Draw and name the following figures
a) A figure with exactly one line of symmetry.
b) A figure with exactly two lines of symmetry.

SECTION-C

21. Write down the measurement of
a) any three acute angles
b) any three obtuse angles
c) any three reflex angles
22. The hands of a clock make different angles at different times. What will be the angle formed at
a) 1 o'clock b) 6 o'clock c) 3 o'clock
Also, name the type of angle formed.
23. Compare the fractions and put appropriate sign
a) $\frac{7}{8}$ $\square$ $\frac{1}{7}$ b) $\frac{3}{5}$ $\square$ $\frac{2}{6}$ c) $\frac{2}{5}$ $\square$ $\frac{2}{9}$
24. In a chess competition, Arpit played for $2\frac{3}{7}$ hours and Pulkit played for $2\frac{4}{9}$ hours. Who played for less time? By how much?

B-2

25. A piece of string is 48 cm long. What will be the length of each side of the string is used to form
 a) a square b) an equilateral triangle c) a regular hexagon
26. Four square lower beds each of side 2 m are dug on a piece of land 6 m long and 4 m wide. What is the area of remaining part of land.
27. a) What all integers between -9 and 9
 b) Write 5 negative integers greater than -34
28. Write True or False
 a) The smallest negative integer is -1
 b) Zero is greater than every negative integer
 c) $(-200) - (+60) = -260$
29. Draw and name two figures other than circle and square that have both reflection symmetry and rotational symmetry.
30. Write 4 English alphabet having
 a) Horizontal line of symmetry
 b) Vertical line of symmetry
 c) No line of symmetry

SECTION-D

31. a) Shweta has $\frac{4}{5}$ kg of sugar. She uses $\frac{3}{4}$ kg to make a sweet dish. How much sugar does she left?
 b) Solve $3\frac{11}{15} + 1\frac{2}{15}$
32. Write the number of lines of symmetry, order of Rotation and Angle of Rotational symmetry of following figures.
 a) Equilateral triangle
 b) Regular Pentagon
 c) Circle
 d) Rhombus
33. (i) Classify the triangle on the basis of sides
 a) 3cm, 7cm, 3cm b) 8cm, 9cm, 12cm
 (ii) Classify the triangle on the basis of angles
 a) $45^\circ, 80^\circ, 55^\circ$ b) $30^\circ, 90^\circ, 60^\circ$

Case Study - 1

35. A farmer has a rectangular field that measures 30 m in length and 18 m in width. He plans to divide it into smaller equal sized plots of side 6m each.

Based on this information, answer the following questions:

- 1) What is the area of each square plot?
a) 24 m^2 b) 36 m^2 c) 12 m^2 d) 30 m^2
- 2) What is the perimeter of rectangular field?
a) 540 m b) 196 m c) 200 m d) 96 m
- 3) If the farmer decide to decrease the length of square plot to 5m, what will be perimeter of each plot?
a) 20m b) 25m c) 24 m d) 16 m
- 4) Formula to calculate area of rectangle is
a) $l + b$ b) $l \times b$ c) $2(l + b)$ d) $2(l \times b)$

34. Following is the list of Temperatures of five places on a particular day.

Place	Temperature
Siachin	10°C below 0°C
Shimla	2°C below 0°C
Delhi	5°C above 0°C
Surat	8°C above 0°C
Srinagar	5°C below 0°C

Based on this information, answer the following questions:

- 1) Write the temperature of these places in integers form.
- 2) Which place was coolest one that day.
- 3) Which place was hottest one that day.
- 4) Arrange the temperature in descending order.

B-4