BUDHA DAL PUBLIC SCHOOL PATIALA
FINAL EXAMINATION (22 March 2025)
MATHEMATICS
Class – VI (Set – A)

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. How many right angled turn makes a complete angle? 1

a) 2 b) 4 c) 1 d) 6

2. Three – fourth of the revolution equals _____ degree. 1

a) 270^0 b) 240^0 c) 180^0 d) 120^0

3. What is the perimeter of a square having a side of 6cm? 1

a) 18 cm b) 24 cm c) 12 cm d) 36 cm

4. Ketki is x years of age now. 5 years ago, her age was 1

a) $(5 \times x) years$ b) $(5 + x) years$ c) $(x - 5) years$ d) $(5 \div x) years$

5. 1 million = _____ lakh 1

a) 1000 b) 100 c) 10 d) 1

6. 30, 40, 45 and 60 are in proportion. Middle terms are 1

a) 30, 40 b) 40, 45 c) 45, 60 d) 30, 60

7. Fraction $\frac{3}{2}, \frac{12}{7}, \frac{18}{5}$ are _____ fractions 1

a) Proper b) Mixed c) Improper d) Unit

8. $\frac{7}{12} - \frac{3}{12} =$ _____ 1

a) $\frac{10}{3}$ b) $\frac{4}{10}$ c) $\frac{4}{12}$ d) $\frac{10}{24}$

9. $958\,g =$ _____kg 1

a) 9.58 b) 0.958 c) 95.8 d) 9580

10. 0.09 _____ 0.90 . 1

a) > b) < c) = d) none

SECTION-B

11. Fill in the blanks: 2

a) The angle for one revolution is a _____ angle.

b) A triangle in which all sides are unequal is called a _____ triangle.

12. Kanika is 11 years elder than Kartik. Write Kanika's age in terms of Kartik's age. (Take Kartik's age y) 2

13. A table top measures 2m 50cm by 2m. What is the area in square metre? 2

14. Divide 40 pens between Arpit and Arpan in the ratio 3:2?

15. In a class of 36 students, 20 are boys and rest are girls. Find the ratio of
    a) Number of girls to Number of boys.
    b) Number of boys to total number of students. (2)

16. Two sides of a triangle are 10cm and 12cm. If perimeter of the triangle is 36 cm, find the third sides.

17. Tannu ate 4 pizzas out of 10 pizza. Mannu ate $\frac{3}{5}$ of the same order. Who ate less pizza and by how much? (2)

18. Insert commas suitably and write the number name according to Indian system of numeration.
    a) 432902 b) 1800071 2

19. Arrange in ascending order
    12.142, 12.124, 12.104, 12.401, 12.214 2

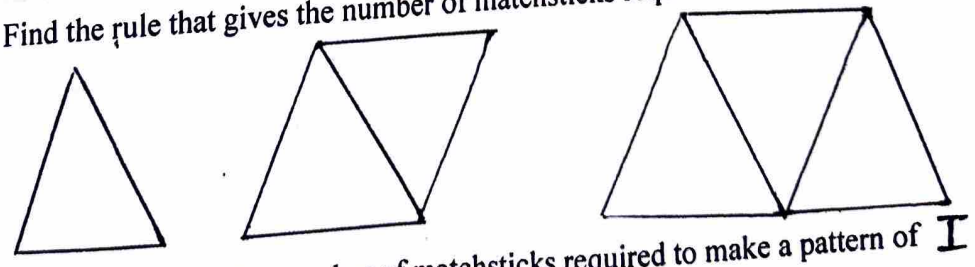
20. Name the type of triangles.
    b) ΔMNQ *with* $\angle N = 90^0$ *and* $MN = NQ$
    c) ΔXYZ *where* $XY = YZ = ZX = 6cm$

SECTION-C

21. a) Write $\frac{129}{8}$ as mixed fraction (3)
    b) Write $\frac{5}{6}$ as a fraction with numerator 60
    c) Write $\frac{16}{96}$ in simplest form

22. A piece of string is 30 cm long. What will be length of each side if the string is used to form (3)
    a) a square b) an equilateral triangle c) a regular pentagon

23. a) Find the rule that gives the number of matchsticks required to make the following pattern. 3



    b) Find the rule for number of matchsticks required to make a pattern of I

24. Rahul bought 4 kg 90 g Apples, 2 kg 60 g Oranges and 5 kg 30 g of Mangoes. Find the total weight of fruits bought by Rahul in kg. 3

25. The distance between the school and a student's house is 1 km 875 m. Everyday, she walks both ways. Find the total distance covered by her in 8 days. 3

26. Determine if the following are in proportion. Also write middle and extreme terms. 3

a) 4 km to 2000 m and 80 g to 40 g

b) 2 cm to 24 cm and 35 L to 49 L

27. Solve (3)

a) Rs. 87.89 – Rs. 63.97

b) 15.268 + 7.007 + 0.5

c) 126.2 – 1.262

28. State True or False (3)

a) An angle smaller than right angle is called an acute angle.

b) A scalene triangle has two equal sides.

c) Hour hand of a clock turns through 2 right angles when it goes from 3 to 12.

29. Four square flower beds each of side 2m are dug on a piece of land 6m long and 4m wide. What is the area of remaining part of land? 3

30. a) Javed was given $\frac{5}{7}$ of a basket of oranges. What fraction of oranges was left in the basket? 3

b) Draw the number line and locate the following points in them

$\frac{2}{3}, \frac{1}{6}, \frac{2}{6}, \frac{3}{6}$

SECTION-D

31. Fill in the blanks :

a) Greatest single digit number + 1 = _____

b) _____ order means arrangement from the greatest to the smallest.

c) Greatest 3 digit number by using any one digit twice of 3, 8, 7 is _____

d) Length of a ribbon is 7m. Its length in cm is _____ 4

32. a) A car travels 165 km in 3 hours. How far will it travel in 5 hours?

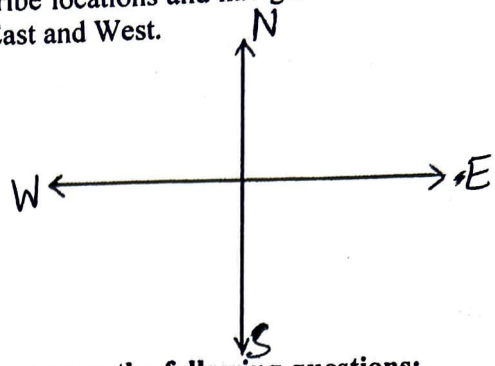
b) What fraction of a day is 6 hours? 4

33. Write down the measures of any

a) two acute angles
b) two obtuse angles
c) two reflex angles
d) straight angle and right angle 4

Case Study - 1

34. Directions are used to describe locations and navigate on Earth's surface. There are 4 primary directions – North, South, East and West. 4



Based on this information, answer the following questions:

1) Which direction will you face if you start facing west and makes $\frac{1}{2}$ of a revolution anti clockwise?
   a) North b) South c) East d) West
2) Which direction will you face if you start facing North and make $1\frac{1}{2}$ of a revolution.
   a) North b) South c) East d) West
3) What part of a revolution have you moved if you stand facing South and turn clockwise to face East.
   a) $\frac{1}{2}$ b) $\frac{1}{4}$ c) $\frac{3}{4}$ d) 1
4) How many degrees have you moved if you stand facing East and turn anti clockwise to face North.
   a) 360^0 b) 270^0 c) 180^0 d) 90^0

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 square plots each having side of 6 m. 4

Based on this information, answer the following questions:

1) What is the area of rectangular field?
   a) 120 m^2 b) 540 m^2 c) 96 m^2 d) 210 m^2
2) What is the formula to calculate area of a square?
   a) L × b b) 4 × side c) 2 (L+b) d) side × side
3) What is the perimeter of each square plot?
   a) 24 m b) 36 m c) 14 m d) 12 m
4) What is the formula to calculate the perimeter of a rectangle?
   a) L × b b) 4 × side c) 2 (L + b) d) side × side

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SECTION-A

1. How many right angled turn makes a straight angle? 1

   a) 2 b) 4 c) 1 d) 6

2. A triangle have two equal sides is called _____ triangle. 1

   a) Scalene b) Isosceles c) Equilateral d) All

3. $\frac{7}{2}, \frac{3}{4}, \frac{9}{7}$ fractions are called 1

   a) like b) unlike c) both d) none of these

4. Name of fraction $\frac{3}{5}$ is 1

   a) three – fourth b) three - fifth c) five - third d) none of these

5. 1 cm = _____ m 1

   a) $\frac{1}{100}\ m$ b) $\frac{1}{1000}\ m$ c) $\frac{1}{10}m$ d) none of these

6. How will you write 3 cm 4mm in cm using decimals 1

   a) 3.4 cm b) 4.3 cm c) 3.04 cm d) 4.03 cm

7. What is the perimeter of equilateral triangle having each side 5 cm? 1

   a) 10 cm b) 15 cm c) 5 cm d) None of these

8. For Z, required matchsticks are? 1

   a) 1 b) 2 c) 3 d) none of these

9. 1:5 *and* 3:15 1

   a) are in proportion b) are not in proportion

10. A kilo metre is _____ times metre 1

    a) 100 b) 10 c) 1000 d) 10,000

SECTION-B

11. a) Find the equivalent fraction of $\frac{2}{9}$ with denominator 63. 2

    b) Write $\frac{27}{5}$ in mixed fraction.

12. a) Which is greater 0.5 or 0.05 2

b) Express 8888 m as km using decimals.

13. The area of rectangular piece of cardboard is 36 sq. cm and its length is 9cm. What is the width of cardboard? 2

14. The perimeter of regular hexagon is 72 cm. How long is its each side? 2

15. Divide Rs. 60 in the ratio 1 :2 between Kriti and Kiran.

16. Are the ratios 25 g : 30 g and 40 kg : 48 kg in proportion? (2)

17. Find the rule which gives the number of matchsticks required to make following pattern

a) A pattern of letter T

b) A pattern of letter E

c) A pattern of letter V

d) A pattern of letter L

18. True or False (2)

a) The measure of an acute angle $< 90^0$

b) The measure of a reflex angle $> 180^0$

19. Which direction will you face if you start facing east and make $1\frac{1}{2}$ of revolution clockwise. 2

20. a) Insert commas suitable and write the names according to Intrernational system of numeration 78421092 2

b) 1 million = _____ lakh

SECTION-C

21. Jaidev take $2\frac{1}{5}$ minutes to walk across the school ground. Rahul take $\frac{7}{4}$ minutes to do the same. Who take less time and by what fraction? (3)

22. Suman travelled 5km 52m by bus, 2km 265 m by car and the rest 1km 30 m she walked. How much distance did she travel in all? (3)

23. a) Compare $\frac{5}{6}$ *and* $\frac{13}{15}$ 3

b) Write in lowest from (i) $\frac{16}{96}$ (ii) $\frac{9}{108}$

24. Solve : 3

a) $0.75 + 12.425 + 3$

b) $13.6 - 9.847$

c) Express 925 paise in Rupees (using decimal)

25. a) A motorbike travels 220 km in 5 litres of petrol. How much will it cover in 1.5 litres of petrol. 3

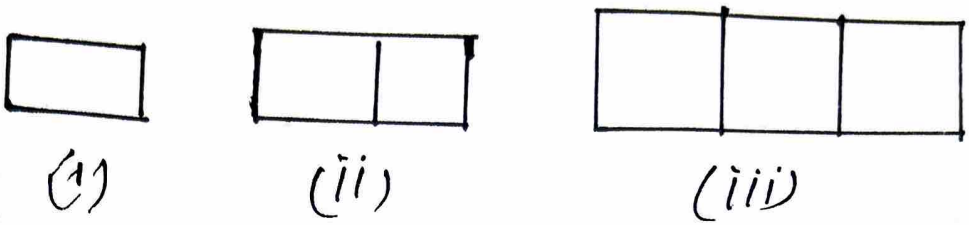
b) Find the ratio of 500 ml to 4 litres.

26. A floor is 8m long and 4m wide. A square carpet of sides 4 m is laid on the floor. Find the area of floor that is not carpeted. 3

27. Pinky runs around a square field of side 75 m, Bob runs a rectangular field with length 16 m and breadth 10 m. Who covers more distance and by how much? (3)

28. a) Write one example of constant and variable. (3)

b) Find the rule that gives the number of matchsticks required to make following pattern.



29. The town newspaper is published every day. One copy has 12 pages. Everyday 11,980 copies are printed. How many total pages are printed everyday? 3

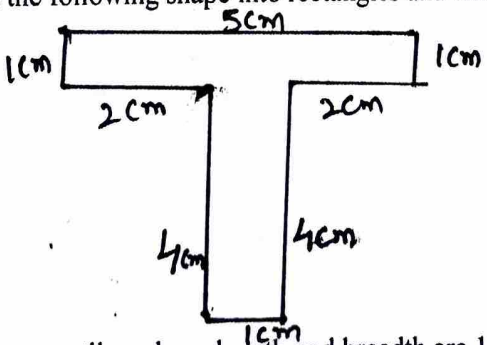
30. a) What is the angle name for one – fourth revolution? 3

b) How many right angles do you make if you start facing south and turn clockwise to west?

c) Examine.whether following are polygons? If not, why?

SECTION-D

31. a) Split the following shape into rectangles and find its area



b) How many tiles whose length and breadth are 12 cm and 5 cm respectively will be needed to fit a rectangular region whose length and breadth are 70 cm and 36 cm respectively. 4

32. a) There are 45 persons working in an office. If the number of females is 25 and remaining are males, find the ratio of

i) number of females to number of males

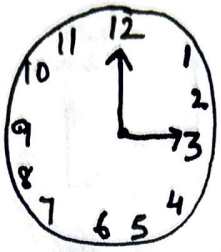
ii) number of males to total number of persons 4

b) Cost of 105 envelopes is Rs. 35. How many envelopes can be purchased for Rs. 10?

33. a) A vessel has 7 litres of ice – cream. How many scoops of 60 ml each can be made from it? What quantity of ice – cream will be left behind?
b) Length of river is 1043 km. Its length in metres is _____. 4

Case Study - 1 4

34. On the basis of clock answer the following questions:



Based on this information, answer the following questions:

1) What is the angle formed at 30'clock?
a) 90^0 b) 60^0 c) 180^0 d) none of these
2) What is the angle formed at one – complete revolution?
a) 90^0 b) 180^0 c) 360^0 d) 270^0
3) Is the clock a polygon?
a) True b) False
4) What part of revolution have you moved if you start from 3 and reach at 9?
a) 1 b) $\frac{1}{2}$ c) $\frac{3}{4}$ d) $\frac{1}{4}$

35. A farmer has a rectangular field that measures 40 m in length and 18 m in width. He wants to grow crops in the field and plans to divide it into smaller equal sized square plot each having a side 7 m. 4

Based on this information, answer the following questions:

1) What is the area of rectangular field?
a) 620 m^2 b) 720 m^2 c) 116 m^2 d) 72 m^2
2) What is formula to calculate the area of square?
a) 4 × side b) 2 (L +b) c) side × side d) L × b
3) What is the formula for perimeter of rectangular plot?
a) 4 × side b) L × b c) 2 (L +b) d) none of these
4) Area of rectangular field is greater than area of square plot?
a) True b) False