



K.P.C. PUBLIC SCHOOL, KHARGHAR
ASSESSMENT IV - 2023-24

GRADE :-VI
SUBJECT :- MATHS

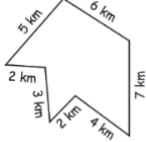
MARKS:-100
TIME:- 3Hrs.

Section A

This sections comprises of multiple choice question (MCQS)

(1 mark each)

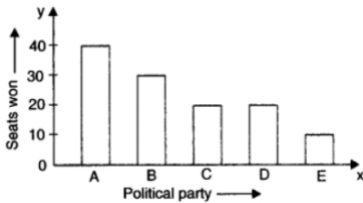
1. The perimeter of the figure is



- a) 30 km b) 16 km c) 29 km d) none of these
2. 21.013 in words =
a) Two one point zero thirteen c) Twenty one point thirteen
b) Twenty one point zero one three d) none of these
3. The shape is of

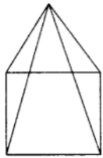


- a) Cylinder b) cone c) sphere d) cuboid
4. The salary of a month of an employee is ₹4000. The annual salary of the employee is
a) ₹ 48000 b) ₹ 24000 c) ₹ 12000 d) ₹ 8000
5. The age of man is x years, sahil is 5 years older than man therefore sahil age is
a) $x + 5$ b) $x/5$ c) $x - 5$ d) $5x$
- Observe the following bar graph and answer the related question no.6



6. How many parties won more than 20 seats?
a) 1 b) 2 c) 3 d) 4
7. Add:- $5.420 + 25.25 + 48.2 =$
a) 78.870 b) 87.870 c) 788.70 d) 7.8870
8. The ratio of 25 minutes to 1 hour is
a) 7 : 5 b) 5 : 12 c) 12 : 5 d) 5 : 7
9. Which of the following expression with numbers only?
a) $2(4 - 3) + 5 \times 6$ b) $2 \times 3 - 4x$ c) $4 \times 5 - 10 + x$ d) $8x$
10. The measures of an obtuse angle is
a) $<90^\circ$ b) $>90^\circ$ and $< 180^\circ$ c) $= 90^\circ$ d) none of these
11. The length and breadth of a rectangular park are 50 m and 40 m respectively. Find the ratio of the length to the breadth of the park.
a) 4 : 5 b) 4 : 1 c) 5 : 1 d) 5 : 4
12. 55 m =
a) 0.055 km b) 0.55 km c) 0.0055 km d) 5.5 km
13. Which of the following are in proportion?
a) 2,3,20,30 b) 3,4,15,18 c) 1,3,11,22 d) 2,5,40,80

14. Between which two whole numbers on the number line does the number 3.3 lie?
 a) 0 and 1 b) 1 and 2 c) 3 and 4 d) 2 and 3
15. 100 students appeared in annual examination. 60 students passed. The ratio of the number of students who failed to the total number of students is
 a) 5 : 2 b) 2 : 5 c) 2 : 3 d) 3 : 2
16. Which of the following angles is the measure of a reflex angle?
 a) 90° b) 180° c) 120° d) 270°
17. How many right angles do you make if you start facing east and turn clockwise to east?
 a) 1 b) 2 c) 3 d) 4
18. The perimeter of a regular pentagon is 10 m. Find the length of the side.
 a) 1 m b) 2 m c) 5 m d) 10 m
19. The cost of a car is ₹ 3,00,000. The cost of a motorbike is ₹ 50,000. The ratio of the cost of motorbike to the cost of car is
 a) 1 : 6 b) 1 : 5 c) 1 : 4 d) 1 : 3
20. If each matchbox contains 50 matchsticks, the number of matchsticks required to fill n such boxes is
 a) $50 + n$ b) $50n$ c) $50 \div n$ d) $50 - n$
21. Perimeter of an equilateral triangle =
 a) $2 \times \text{length of a side}$ c) $4 \times \text{length of a side}$
 b) $3 \times \text{length of a side}$ d) $6 \times \text{length of a side}$
22. The number of corners of the shape is



- a) 8 b) 6 c) 5 d) 3
23. When two ratios are equal, they are said to be in
 a) Proportion b) equivalent c) Both d) None of these
24. ₹ 100 are divided between Sangeeta and Manish in the ratio 4 : 1. Find the amount Sangeeta gets.
 a) ₹ 80 b) ₹ 20 c) ₹ 60 d) ₹ 50
25. The number of corners of a cylinder is
 a) 0 b) 1 c) 2 d) none of these
26. Find the difference of 9.847 km from 11.6 km =
 a) 1.573 km b) 1.753 km c) 15.73 km d) 17.53 km
27. $18 : 81 =$
 a) 9 : 3 b) 2 : 9 c) 1 : 3 d) 9 : 2
28. A triangle having two equal sides is called
 a) A scalene triangle c) an equilateral triangle
 b) An isosceles triangle d) a right angled triangle
29. $2\frac{1}{10} =$
 a) 2.1 b) 2.01 c) 2.001 d) 2.0002
30. Which of the following angle is the measure of an acute angle?
 a) 30° b) 90° c) 120° d) 210°

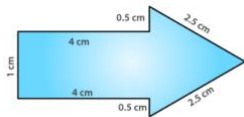
Section B

This section comprises with very short answer type questions.

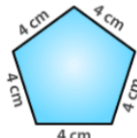
(2 marks each)

31. How many right angles do you make if you start facing
 i) North and turn anti-clockwise to east?
 ii) West and turn to west?
32. Show the following numbers on the number line.
 i) 2.6
 ii) 6.3
33. If the cost of 7 m of cloth is ₹ 1470, find the cost of 5 m of cloth.

34. Find the perimeter of each of the following figures:



a)



b)

35.i) If $x = 2$, $y = 3$ and $z = 5$, find the value of; $2x + y + z$

ii) A tabletop measures 2 m by 1 m 50 cm. What is its area in square metres?

36. Fill in the blanks:

- (a) 5 added to $-5 = \dots\dots\dots$
- (b) If $x = 3$, then $3x - 5 = \dots\dots\dots$
- (c) If $x = 1$ and $y = 2$, then $2x + 3y = \dots\dots\dots$
- (d) If $10x - 6 = 14$, then $x = \dots\dots\dots$

37. Five square flower beds, each of sides 1 m, are dug on a piece of land 5 m long and 4 m wide. What is the area of the remaining part of the land?

38. Determine the following are in proportion:

- i) 15,20,30,40
- ii) 11, 22, 33, 44

39. Make up as four expressions with numbers (no variables) as you can from three numbers 6, 2 and 5. Every number should be used not more than once. Use only addition, subtraction and multiplication.

40. Find the cost of fencing a rectangular park of length 175 cm and breadth 125 m at the rate of ₹ 12 per metre.

Section c

This section comprises of short answer type questions.

(3 marks each)

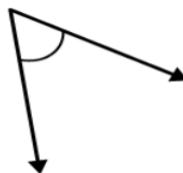
41. In a college, out of 4320 students, 2300 are girls. Find the ratio of

- a) Number of girls to the total number of students.
- b) Number of boys to the number of girls.
- c) Number of boys to the total number of students..

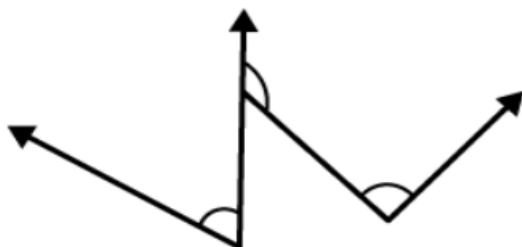
42. Measures the angles given below using the protractor and write down the measure.



i)



ii)

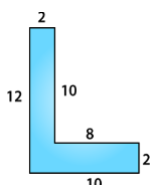


iii)



iv)

43. By splitting the following figure into rectangles, find their areas (The measures are given in centimetres).



44. Find the number of right angles turned through by the hour hand of a clock when it goes from
- 5 to 11
 - 10 to 1
 - 12 to 9

45. Following table shows the number of bicycles manufactured in a factory during the years 1998 to 2002. Illustrate this data using a bar graph. Choose a scale of your choice

Year	Number of bicycles manufactured
1998	800
1999	600
2000	900
2001	1100
2002	1200

46. Complete the entries in the third column of the table.

S.No	Equation	Value of variable	Equation satisfied Yes / No
(a)	$10y = 80$	$y = 10$	
(b)	$10y = 80$	$y = 8$	
(c)	$10y = 80$	$y = 5$	
(d)	$4l = 20$	$l = 20$	
(e)	$4l = 20$	$l = 80$	
(f)	$4l = 20$	$l = 5$	

Section D

This section comprises of long answer type questions.

(5 mark each)

47. Draw and Name the types of following triangles:

- Triangle with lengths of sides 7 cm, 8 cm and 9 cm.
- $\triangle ABC$ with $AB = 8.7$ cm, $AC = 7$ cm and $BC = 6$ cm.
- $\triangle PQR$ such that $PQ = QR = PR = 5$ cm.
- $\triangle DEF$ with $\angle D = 90^\circ$
- $\triangle XYZ$ with $\angle Y = 90^\circ$ and $XY = YZ$.

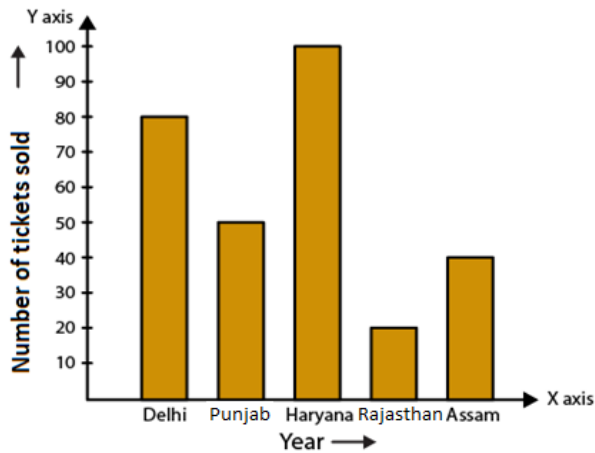
48.i) Solve:-

- $7.101 + 3.256 - 2.102$
- $2.2075 + 5.040 - 1.602$
- $94.230 + 2.0723 - 1.423$

ii) Write as fractions in the lowest terms.

- 0.75
- 0.60

49. Read the bar graph show in and answer the following questions:








- (i) What is the information given by the bar graph?
- (ii) How many tickets of Assam State Lottery were sold by the agent?
- (iii) Of which state, were the maximum number of tickets sold?
- (iv) State whether true or false.

The maximum number of tickets sold is three times the minimum number of tickets sold.

- (v) Of which state were the minimum number of tickets sold?

50. Match the following:

(a) Cone	(i)	
(b) Sphere	(ii)	
(c) Cylinder	(iii)	
(d) Cuboid	(iv)	
(e) Pyramid	(v)	

Section E

This section comprises with case study type questions.

(4 marks each)

- 51. Mr. Sharma is planning to construct a park 600m by 500m with four square flowerbeds with side 50m each and one metre wide road is running parallel to the length of the park. In rest of area green grass is to be grown. Find the Area covered by grass.
- 52. Present age of Priya’s mother is 48 years and the age of Priya is 12 years. Based on above information, Find the ratio of
 - i) Present age of mother to the present age of Priya.
 - ii) Age of mother to the age of Priya, when Priya was 9 years old.
 - iii) Age of mother to the age of Priya, when mother was 30 years old.
 - iv) Age of mother after 20 years to the age of Priya after 10 years.
- 53. The length and breadth of a floor of a room is 15 m and 25 m respectively. Find the number of square tiles of a) 50 cm and b) 25 cm required to pave the floor of the room.