ANNUAL EXAMINATION

Question Paper 2024

NCERT BASED SYLLABUS

FOR CBSE AND STATE BOARD
FOLLOWING NCERT

SESSION ENDING EAXAMINATION

CLASS-VI

SUBJECT-MATHEMATICS

Time:- 2 Hours 30 Minutes **Maximum Marks: 60**

General Instructions:-

1. The question paper consists of Four Sections - A, B, C and D.
2. Section - A consists of 15 questions of 1 mark each;
3. Section- B consists of 5 questions of 2 marks each;
4. Section- C consists of 5 questions of 3 marks each
5. Section- D consists of 5 questions of 4 marks each
6. Internal choices are given in 1 question in section B, 2 questions in section C and D.
7. All questions are compulsory.

SECTION – A

1 What is the number shown by this tally mark?  1

a) 18
b) 24
c) 19
d) 20

2 The rule which gives the number of match sticks required to make the matchstick pattern **V** is 1

(a) 2n (b) 3n (c) 4n (d) 5n

3 What is the area of square of side 7cm? 1

a) 7 sq cm
b) 14 sq cm
c) 70 sq cm
d) 49 sq cm

4 1

Find the missing number in the box in the following proportion:
__ : 5 :: 12 : 60
(a) 1
(b) 4
(c) 6
(d) 2

5 Which of the following among is greatest 3.4, 2.03, 4.56, 3.47? 1

(a)3.4
(b)3.47
(c) 4.56
(d) 2.03

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1

6 The present age of Ramya is X years ,3 years ago her age was

a) 3-X

b) X+3

c) 3X

d) X-3

7 There are 15 apples and 25 mangoes in basket, the ratio of apples to mangoes is 1

a) 15:5

b) 3:5

c) 5:3

d) 1:5

8 Which of the following ratio is not equivalent to 30 : 90 ? 1

(a) 3 : 9 (b) 1 : 3 (c)15 :45 (d) 1 : 6

9 Find 31.24 + 7.03 = _____ 1

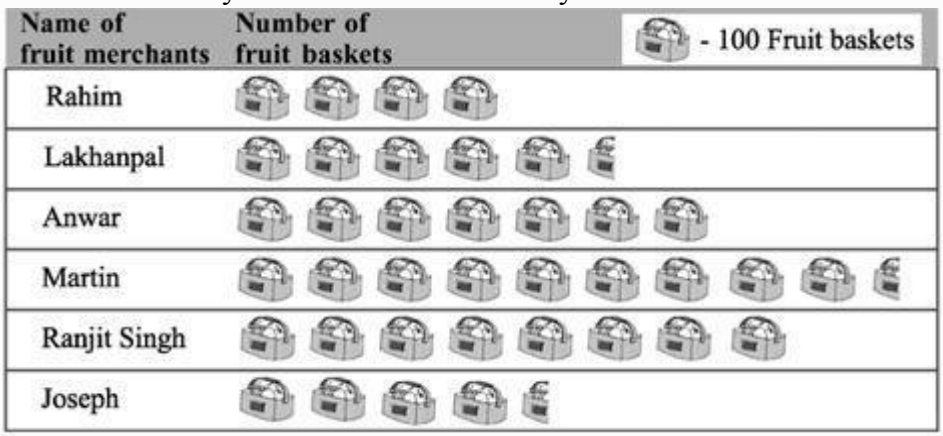
a) zero

b) 38.07

c) 38.2

d) 38.27

10 In a village six fruit merchants sold the following number of fruit baskets in a particular season. How many fruit baskets were sold by Rahim? 1



a) 700

b) 400

c) 500

d) 650

11 If * is an operation such that for two integers p and q, p * q = p + q – 2, then find 6 * 2 1

a) 12

b) 14

c) 6

d) 8

12 1

Express as kg using decimals. 3750 g

(a) 37.50 Kg (b) 375.0 Kg (c) 3.75 Kg (d) 0.3750 Kg

13 The teacher distributes 4 pencils per student. Can you tell how many pencils are needed for given number of students? (Use s for the number of students.)

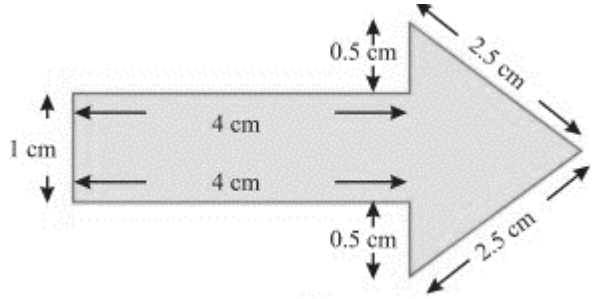
a) 4 – s

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b) 4+s
c) s
d) 4s

14 Find the perimeter of each of the following figures : 1



(a) 14 cm (b) 15 cm (c) 16 cm (d) 20 cm

15 The area of a rectangular garden 50 m long is 300 sq m. Find the width of the garden. 1

(a) 10 m (b) 12 m (c) 6 m (d) 2 m

SECTION B (Each 2 marks)

Q16. Catherine threw a dice 40 times and noted the number appearing each time as shown below:

1	3	5	6	6	3	5	4	1	6
2	5	3	4	6	1	5	5	6	1
1	2	2	3	5	2	4	5	5	6
5	1	6	2	3	5	2	4	1	5

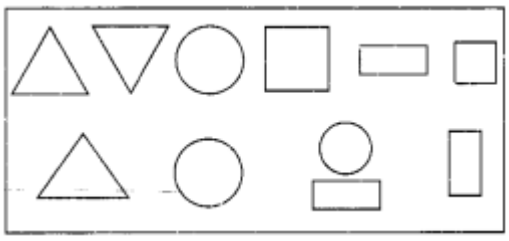
Make a table and enter the data using tally marks.

Q17. A tabletop measures 2m 25cm by 1m 50cm. what is the perimeter of the table top?

OR

The perimeter of a regular pentagon is 100 cm. How long is its each side?

Q18. From the figure,



Find the ratio of

(a) The number of squares to the number of triangles.

(b) The number of circles to the number of rectangles.

Q19. The choices of the fruits of 42 students in a class are as follows:

A,G,B,M,G,A,O,B,B,A,A,O,M,G,B,G,G,B,O,B,A,G
,B,M,B,A,B,O,B,M,G,A,B,O,M,B,G,B,A,O,G,A

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Where, A, B, G, M and 0 stands for the fruits Apple, Banana, Grapes, Mango and Orange, respectively.

(I)Which two fruits are liked by an equal number of students?
(II) Which fruit is liked by most of the students?

Q20. In a class test containing 20 questions, 5 marks are awarded for each correct answer and 2 marks are deducted for each wrong answer. If Riya get 15 correct answers out of all the questions attempted. What is her total score?

SECTION C

Q21. Present age of father is 42 years and that of his son is 14 years. Find the ratio of

(a) Present age of father to the present age of son.

(b) Age of the father to the age of son, when son was 12 years old.
(c) Age of father after 10 years to the age of son after 10 years.

Q22 what is the cost of tiling a rectangular plot of land 500 m 25cm long and 200 m wide at the rate of Rs. 8 per hundred sq m.?

Or

A piece of string is 30 cm long. What will be the length of each side of the string if the string is used to form the following figures?

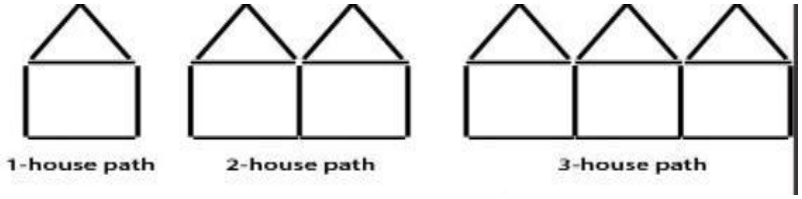
(i) a square?

(ii) an equilateral triangle?

(iii) a regular hexagon?

Q23. Here is a pattern of houses with matchsticks:

(a) Write the general rule for this pattern.



(b) Radha is drawing a dot Rangoli (it is a beautiful pattern of lines joining dots with chalk powder). She has 9 dots in a row. How many total dots will her rangoli have for r number of rows?

Q24. Ten years old Rahul can carry a maximum weight of 15 kg. If he bought 4 kg 900 g of apples, 2 kg

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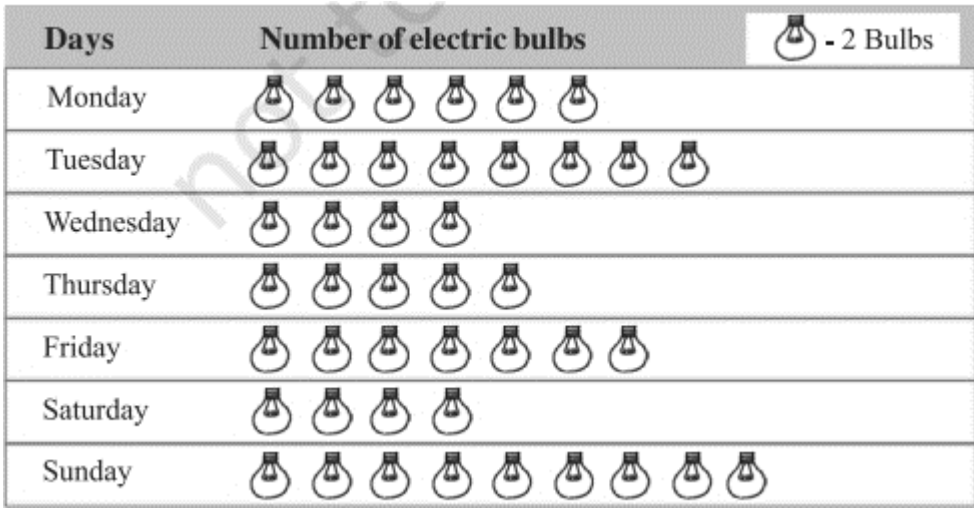
600 g of grapes and 5 kg 300 g of mangoes. Can he carry the total weight that he bought? If yes, then how much more weight he can carry with him?

Q25.Rohan deposited Rs 5320 in his account on Monday and then withdrew Rs 3895 on Tuesday, next day he again deposited Rs 1283. What was his balance on Wednesday?

Or

The temperature on a certain morning is -11℃ at 5 a. m. If the temperature drops 3 degree at 6 a.m. and rises 2 degree at 7 a.m. and rises 3 degree at 8 a.m. and again drops 3 degree at 9 a.m. What is the temperature at 9 a.m.?

SECTION - D



Q26. The sale of electric bulbs on different days of a week is shown below:

Observe the pictograph and answer the following questions:

(a) How many bulbs were sold on Friday?
(b) On which day was the maximum number of bulbs sold?
(c) On which of the days same number of bulbs was sold?
(d) If one big carton can hold 9 bulbs. How many cartons were needed in the given week?

Q27. Oranges are to be transferred from larger boxes into smaller boxes. When a large box is emptied, the oranges from it fill two smaller boxes and still 10 oranges remain outside. If the number of oranges in a small box are taken to be x, what is the number of oranges in the larger box?

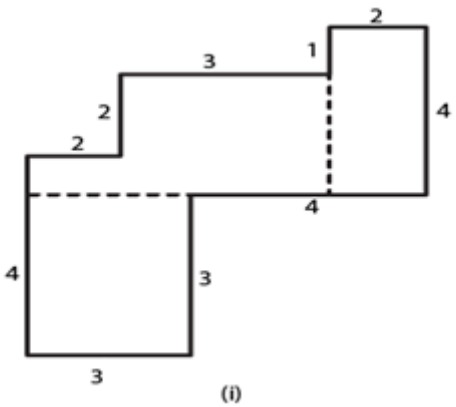
Q28. Shikha runs around a square of side 75 m. Priya runs around a rectangle with length 60 m and breadth 45 m. Who covers the smaller distance?

Or

The following figure has been split into rectangles. Find the area. (The measures are given in centimeters)

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(i)

Q29. Are the following statements true?

(a) 45km : 60km = 12 hours : 15 hours.

(b) 7.5litre: 15litre = 5kg: 10kg.

Q30. Manish has ₹10000. He wants to buy 7 shirts, each for ₹750.25 and 3 trousers, each for ₹1525.85. Is it possible for him to purchase what he wants? If yes, how much money will be left? If no, how much more does he need?

OR

NUTRITIONAL INFORMATION PER 100g (Approx.)	
Carbohydrate	45 g
Sugars	24.5 g
Protein	7 g
Fat	
Saturated Fatty Acids	9 g
Monounsaturated Fatty Acids	8.2 g
Polyunsaturated Fatty Acids	2.7 g
Trans Fatty Acids	0 g
Cholesterol	0 g
Energy	488kcal

(A) How much fat (in g) is in 100 g of cookies? (3)

(B) Which fat content is the highest in the cookies? (1)

A. Saturated fatty acids
B. Monounsaturated fatty acids
C. Polyunsaturated fatty acids
D. Trans fatty acids

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SESSION ENDING EXAMINATION 2023-24
CLASS - 6 SUBJECT -MATHEMATICS
Marking Scheme
Section -A

Q.no.	Answer	Marks
1.	C 19	1
2	A 2n	1
3	D 49sq.cm	1
4	A 1	1
5	C 4.56	1
6	D x-3	1
7	B 3:5	1
8	D 1:6	1
9	D 38.27	1
10	B 400	1
11	C 6	1
12	C 3.75 Kg	1
13	D 4s	1
14	B 15 cm	1
15	C 6 m	1

Section -B

16	FOR CORRECT FREQUENCY TABLE	2
17	Perimeter=2(2.25+1.50) = 2x3.75 =7.50 cm OR Side=100/5 =20 cm	1 1 2
18	a-2:3 b- 1:1	1 1
19	a- A and G b- B	1 1
20	15x5+5x(-2) 75-10=65	1 1

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Section -C

21	(A) 42:14=3:1 (B) 40:12= 10:3 (C) 52:24= 13:6	1 1 1
22	Area of rectangular plot= 500.25m x200m = 100050 sq m Cost= 100050x 8= rs. 800400 Or (I) side= 30/4= 7.5 cm (Ii) side = 30/3= 10 cm (Iii) side= 30/6 = 5 cm	1.5 1.5 1 1 1
23	(A) 5n+1 (B) total no. Of dots = 9r	1.5 1.5
24	Bought=4.900+2.600+5.300 =12.800 kg He can carry=15-12.800 2.200kg	2 1
25	Balance=5320-3895+1283 =2708 Or Temp.At 9 a.m.=(-11)+(3)+(2)+(3)+(-3)=-12^{o}C	3 3

Section D

26	(A) 14 (B) Sunday (C) Wednesday and Saturday (D) 86/9= 9.5 or 10 cartons	1 1 1 1
27	2x+10	4
28	Shikha covers= 4* side =4x75=300 m Priya covers =2(l+b) =2(60+45) =210 m Priya covers smaller distance Or Area= 9+2+9+8=28 sq cm	1.5 1.5 1 1for each part
29	(a) False(with solution) (b) True (with solution)	2 2
30	(A) 100- 96.4=3.6 gm (B) option A saturated fatty acids	3 1

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