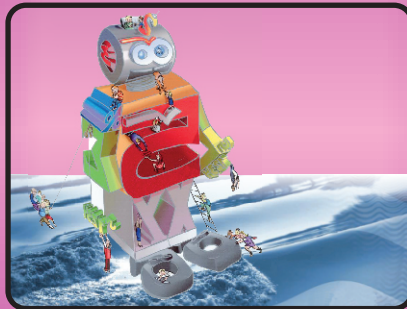


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OLYMPIAD EXPLORER



Workbook for

Nationwide Interactive **MATHS** Olympiad & Other
National/International Olympiads/Talent Search Exams.

Based on CBSE, ICSE, GCSE, State Board Syllabus & NCF (NCERT)

100's of Q's with answers

- Chapterwise Practice Q's
- Revision Q's
- Sample Paper



Class

6

EDUHEAL FOUNDATION

• LEARNING FOR LIFE •

EduHeal Foundation conducts 5 Olympiads annually reaching out to 3,500 + Schools
• 4 Lakh + Students • 50,000 Coordinating Teachers and having 500 Resource persons
in English / Maths / Science / Biotech / Computer & 300 Regional Coordinators.

PRIZES



WORKSHOP • TEACHER TRAINING PROG. • MAGAZINE/LAB GRANT • PRINCIPAL LEADERSHIP AWARD.

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SYLLABUS GUIDELINES

CLASS - 6

Based on CBSE, ICSE & GCSE Syllabus
& NCF guidelines devised by NCERT.

NUMBER SYSTEM

- (i) **Knowing Numbers:** Consolidating the *sense* of numberness upto 5 digits, Size, estimation of numbers, identifying smaller, larger, etc. Place value (recapitulation and extension), connectives: use of symbols =, <, > and use of brackets, word problems on number operations involving large numbers up to a maximum of 5 digits in the answer after all operations. This would include conversions of units of length and mass (from the larger to the smaller units), estimation of outcome of number operations. Introduction to a sense of the largeness of, and initial familiarity with, large numbers upto 8 digits and approximation (of large numbers)
- (ii) **Playing with Numbers:** Simplification of brackets, Multiples and factors, divisibility rule of 2, 3, 4, 5, 6, 8, 9, 10, 11. (All these through observing patterns. Children would be helped in deducing some and then asked to derive some that are a combination of the basic patterns of divisibility.) Even/odd and prime/ composite numbers, Coprime numbers, prime factorization, every number can be written as products of prime factors. HCF and LCM, prime factorization and division method for HCF and LCM, the property $LCM \times HCF = \text{product of two numbers}$. All this is to be embedded in contexts that bring out the significance and provide motivation to the child for learning these ideas.
- (iii) **Whole numbers:** Natural numbers, whole numbers, properties of numbers (commutative, associative, distributive, additive identity, multiplicative identity), number line. Seeing patterns, identifying and formulating rules to be done by children. (*As familiarity with algebra grows, the child can express the generic pattern.*)
- (iv) **Negative Numbers and Integers:** How negative numbers arise, models of negative numbers, connection to daily life, ordering of negative numbers, representation of negative numbers on number line. *Children to see patterns, identify and formulate rules. What are integers, identification of integers on the number line, operation of addition and subtraction of integers, showing the operations on the number line (addition of negative integer reduces the value of the number) comparison of integers, ordering of integers.*
- (v) **Fractions:** Revision of what a fraction *is*, Fraction as a part of whole, Representation of fractions (pictorially and on number line), fraction as a division, proper, improper and mixed fractions, equivalent fractions, comparison of fractions, addition and subtraction of fractions (Avoid large and complicated unnecessary tasks). (Moving towards abstraction in fractions) Review of the idea of a decimal *fraction*, place value in the context of decimal *fraction*, inter conversion of fractions and decimal fractions (avoid recurring decimals at this stage), word problems involving addition and subtraction of decimals (two operations together on money, mass, length and temperature)

ALGEBRA

(i) Introduction to Algebra

- Introduction to variable through patterns and through appropriate word problems and generalizations (example $5 \times 1 = 5$ etc.)
- Generate such patterns with more examples.
- Introduction to unknowns through examples with simple contexts (single operations)

(ii) Ratio and Proportion

- Concept of Ratio • Proportion as equality of two ratios
- Unitary method (with only direct variation)
- Word problems

GEOMETRY

(i) Basic geometrical ideas (2 D):

Introduction to geometry. Its linkage with and reflection in everyday experience.

- Line, line segment, ray
- Open and closed figures.
- Interior and exterior of *closed* figures.
- Curvilinear and linear *boundaries*
- Angle-Vertex, arm, interior and exterior,
- Triangle-vertices, sides, angles, interior and exterior, altitude and median
- Quadrilateral-Sides, vertices, angles, diagonals, adjacent sides and opposite sides (only convex quadrilateral are to be discussed), interior and exterior of a quadrilateral.
- Circle-Centre, radius, diameter, arc, sector, chord, segment, semicircle, circumference, interior and exterior.

(ii) Understanding Elementary Shapes

(2 D and 3 D)

- Measure of line segment
- Measure of angles
- Pair of lines
- Intersecting and perpendicular lines
- Parallel lines
- Types of angles-acute, obtuse, right, straight reflex, complete and zero angle
- *Classification* of triangles (*on the basis of* sides, and of angles)
- Properties of parallel lines with transversal (alternate, corresponding, interior, exterior angles)

MENSURATION

Concept of perimeter and introduction to area: Introduction and general understanding of *perimeter* using many shapes. Shapes of different kinds with the same perimeter. Concept of area, Area of a rectangle and a square. *Counter examples to different misconcepts related to perimeter and area.* Perimeter of a rectangle – and its special case – a square. Deducing the formula of the perimeter for a rectangle and then a square through pattern and generalization.

DATA HANDLING

- What is data-choosing data to examine a hypothesis?
- Collection and organisation of data examples of organising it in tally bars and a table.
- Pictograph-Need for scaling in pictographs interpretation and construction.
- Making bar graphs for given data interpreting bar graphs.



- Q.1.** What is the number four billion, six hundred thousand, fifty written in expanded form ?
 (a) $4,000,000,000 + 600,000 + 50$
 (b) $4,000,000,000 + 60,000 + 50$
 (c) $4,000,000,000 + 650,000$
 (d) $4,000,000,000 + 6000 + 50$
- Q.2.** Raghu is 21 years old and Kavita is 22 years old. The sum of their ages in Roman system, is
 (a) X X X (b) XLIII
 (c) X X L L (d) none of these
- Q.3.** Write the greatest 4-digit number using different digits with 6 in the ten's place ?
 (a) 9860 (b) 9867
 (c) 9692 (d) none of these
- Q.4.** Bobby's date of birth is 19th September. Express the date in Roman system.
 (a) X X I (b) X I X X (c) I I X (d) X I X
- Q.5.** Roman numeral for 498, is
 (a) CDCXVIII (b) CDCXIV
 (c) CDXCVIII (d) CDXCVII
- Q.6.** The ascending order of XX,XXXVI,V is
 (a) V,XXXVI,XX (b) XX,V,XXXVI
 (c) V,XX,XXXVI (d) XXXVI,XXV
- Q.7.** Face value of "3" in 31005660 is
 (a) 3 hundred (b) 30 lakhs
 (c) 3 (d) none of these
- Q.8.** Place value and face value are always equal at
 (a) 0 (b) 1 (c) any digit (d) 10
- Q.9.** Place value of a digit decreases by times as it moves place by place from left to right.
 (a) 100 (b) $\frac{1}{10}$
 (c) $\frac{1}{50}$ (d) none of these

- Q.10.** How many three-digits numbers can be formed using 3, 5, 0 ?
 (a) 1 (b) 4 (c) 7 (d) 5
- Q.11.** The place which comes on immediate left to hundred thousands place in value chart is
 (a) Millions (b) Ten millions
 (c) Lakhs (d) Hundred millions
- Q.12.** A machine produces 2825 screws a day and after a month (30 days), these screws are distributed equally to five dealers in different parts of the city. The number of screws each dealer got is
 (a) 16,950 (b) 18000
 (c) 12500 (d) none of these
- Q.13.** The symbol that can never be repeated is
 (a) I (b) V (c) X (d) M
- Q.14.** Arrange the following in ascending order 3246, 3425, 3479, 3459
 (a) 3425, 3246, 3459, 3479
 (b) 3246, 3425, 3479, 3459
 (c) 3479, 3425, 3451, 3246
 (d) 3246, 3425, 3459, 3479
- Q.15.** 1 billion = crores.
 (a) 10 (b) 1000
 (c) 100 (d) none of these
- Q.16.** Difference between the place values of "3" in 3116365 is
 (a) 2999700 (b) 3000700
 (c) 2990700 (d) 30000
- Q.17.** The difference between the place value and face value of 5 in 91,25,678 is
 (a) 4995 (b) 7213
 (c) 1600 (d) none of these
- Q.18.** Round off 126243 to the nearest thousand is
 (a) 126000 (b) 12000
 (c) 12090 (d) none of these
- Q.19.** Numeral for sixty million and sixty six is
 (a) 60000060 (b) 60000066
 (c) 6000066 (d) 6000006

- Q.20.** The Roman numeral for $3721 \div 61$ is
 (a) LC (b) XLI (c) LXI (d) CM
- Q.21.** Hindu-Arabic numeral for MMMCCCXXXIII is
 (a) 333 (b) 30303
 (c) 3333 (d) 3330

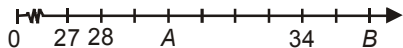


ANSWERS

1. (a) 2. (b) 3. (b) 4. (d) 5. (c) 6. (c) 7. (c) 8. (a)
 9. (b) 10. (b) 11. (a) 12. (a) 13. (b) 14. (d) 15. (c) 16. (a)
 17. (a) 18. (a) 19. (b) 20. (c) 21. (c)



- Q.1.** The product of 2-digits numbers is 1938. If the product of the units digit is 28 and that of their ten's digits is 15, then the number are
 (a) 30, 24 (b) 34, 57
 (c) 23, 24 (d) none of these
- Q.2.** Difference between the face values of 5 and 9 in 165,234 and 842,928 is
 (a) 4000 (b) 500
 (c) 4 (d) none of these
- Q.3.** The number with which 82 is multiplied so that product remains the same is
 (a) 20 (b) 21 (c) 23 (d) 1
- Q.4.** What least number must be subtracted from 13601 to get a number exactly divisible by 87?
 (a) 45 (b) 29 (c) 46 (d) 47
- Q.5.** The whole number which does not have a predecessor is
 (a) 1 (b) 0 (c) 2 (d) 25
- Q.6.** Predecessor of the predecessor of 56 is
 (a) 50 (b) 51 (c) 54 (d) 52
- Q.7.** $(5005 - 5000) \div 10.00 = x$, then value of x is
 (a) 0.5 (b) 1000 (c) 2000 (d) 500
- Q.8.** What is the sum of the predecessor of 521 and the predecessor of 481?
 (a) 999 (b) 987 (c) 1025 (d) 1000
- Q.9.** The information in which of the following option is incorrectly matched?
 (a) Successor of 930 931
 (b) (Successor of 828) + 1 830
 (c) Predecessor of 1000 999
 (d) (Predecessor of 7261) - 1 7260
- Q.10.** What are the respective locations of points A and B on the given number line?

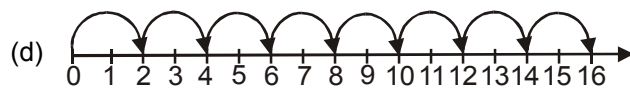
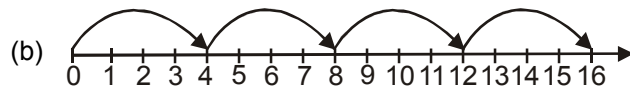


- (a) 30 and 36 (b) 30 and 35
 (c) 31 and 36 (d) none of these
- Q.11.** Which number line **correctly** represents the successors of 21 and 25?
 (a) (b) (c) (d)
- Q.12.** Which number line **correctly** represents the numbers less than or equal to B and the numbers greater than or equal to A?
 (a) (b) (c) (d)
- Q.13.** Which expression is represented on the given number line?

 (a) $6 + 13$ (b) $13 - 6$
 (c) $13 - 7$ (d) none of these
- Q.14.** Which number line **correctly** represents the expression $(4 + 10)$?
 (a) (b) (c)



Q.15. Which number line **correctly** represents the expression (2×8) ?



Q.16. The expression (786×325) can be written as
 (a) $786 - 300 \times 25$ (b) $786 + 25 \times 300$
 (c) $786 \times 300 + 786 \times 25$ (d) none of these

Q.17. What least number should be added to 1330 to get a number exactly divisible by 43 ?
 (a) 10 (b) 5 (c) 3 (d) 7

Q.18. The product of two odd numbers is
 (a) An even number
 (b) An odd number
 (c) Cannot be determined
 (d) none of these

Q.19. Each member of Rahul's family had one pizza for lunch. Each pizza costs Rs. 125. What else do you need to know to find out how much the family spent on lunch ?
 (a) The price of hamburger
 (b) How many people are in the family
 (c) Which family member paid for lunch
 (d) How much money Rahul's father had in his wallet

Q.20. Alka ordered 17 cases of pens. Each case holds 12 boxes and each box holds 48 pens. How many pens did alka order altogether ?
 (a) 9542 (b) 9312 (c) 9792 (d) 8472

Q.21. The number 144 can be represented by a 12×12 square grid. Which of the following can also be represented by a square grid ?

(a) 39 (b) 50 (c) 70 (d) 81

Q.22. Look at the equation below.

$$4 \times (\square + 2) = 4 \times 12$$

What is the value of the missing number ?

(a) 3 (b) 6 (c) 10 (d) 12

Q.23. What is the greatest common divisor of 54, 36 and 24 ?

(a) 2 (b) 3 (c) 6 (d) 9

Q.24. Tarun has 67 small peach trees in his orchard that sprang up from seed. He only has room for a few trees, he has decided to dig them out and divide them equally among his twelve friends. How many peach trees will each of his friends get ?

(a) 5 (b) 6 (c) 7 (d) 8

Q.25. A bat ate 1050 dragon flies on four consecutive nights. Each night she ate 25 more than on the night before. How many did she eat on first night ?

(a) 225 (b) 250 (c) 275 (d) 300



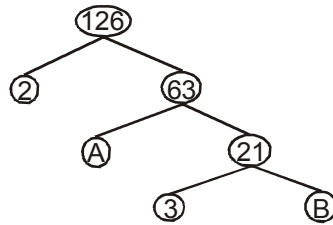
ANSWERS

1. (b) 2. (c) 3. (d) 4. (b) 5. (b) 6. (c) 7. (a) 8. (d)
 9. (d) 10. (a) 11. (b) 12. (a) 13. (c) 14. (a) 15. (d) 16. (c)
 17. (c) 18. (b) 19. (b) 20. (c) 21. (d) 22. (c) 23. (c) 24. (a)
 25. (a)



- Q.1.** Which set of numbers lists all the factors of the number 66?
(a) {1, 11}
(b) {1, 6, 12, 33}
(c) {1, 2, 3, 4, 5, 6}
(d) {1, 2, 3, 6, 11, 22, 33, 66}
- Q.2.** Which set of numbers lists all the multiples of the number 12 that are less than 50?
(a) {12, 24, 36, 48} (b) {2, 3, 6, 12, 24}
(c) {1, 2, 3, 4} (d) none of these
- Q.3.** Which of the following pairs of numbers is not co-prime?
(a) 51 and 52 (b) 12 and 80
(c) 100 and 111 (d) 81 and 91
- Q.4.** Which set of numbers lists all the common multiples of 5 and 7 that are less than 100?
(a) {35, 70} (b) {25, 50, 75}
(c) {35, 45, 70} (d) none of these
- Q.5.** Which set of numbers lists all the common factors of the numbers 363, 165 and 66?
(a) {1, 3, 10} (b) {3, 11}
(c) {1, 3, 11} (d) none of these
- Q.6.** What are the smallest and the greatest digits that can occupy the blank space in the number 8_31245 so as to make the number divisible by 3?
(a) 1 and 4 (b) 1 and 7
(c) 3 and 5 (d) 0 and 6
- Q.7.** Which digit should occupy the blank space in the number 109597_4 such that the number is divisible by 11?
(a) 3 (b) 8 (c) 4 (d) 7
- Q.8.** What least value should be given to * so that the number 653*47 is divisible by 11?
(a) 2 (b) 3 (c) 9 (d) 1
- Q.9.** The HCF of two numbers is 28 and their LCM is 336. If one number is 112, then the other number is
(a) 83 (b) 84
(c) 85 (d) none of these

- Q.10.** The two consecutive prime numbers with difference 2 are called
(a) co-primes (b) twin primes
(c) composite (d) even
- Q.11.** The greatest number that will divide 37, 50, 123 leaving remainder 1, 2 and 3 respectively is
(a) 7 (b) 6 (c) 10 (d) 12
- Q.12.** The HCF and LCM of two numbers is 16 and 192 respectively. If one of the numbers is 64, the other one is
(a) 48 (b) 46
(c) 73 (d) none of these
- Q.13.** Highest common factor of 144, 180 and 192 is
(a) 1 (b) 4 (c) 12 (d) 6
- Q.14.** 297144 is divisible by
(a) 3 (b) 9
(c) 6 (d) (a), (b) and (c)
- Q.15.** Which set of numbers lists all the digits that can occupy the blank space in the number 98257_6 such that the number is divisible by 4?
(a) {1, 3, 5, 7, 9} (b) {1, 3, 4}
(c) {0, 2, 3} (d) {2, 3, 4, 5}
- Q.16.** Which of the following numbers is divisible by 88?
(a) 85321 (b) 84788
(c) 84920 (d) 85000
- Q.17.** What is the difference between the greatest and the smallest prime factor of the number 15120?
(a) 4 (b) 6
(c) 5 (d) none of these
- Q.18.** Which of the following expressions correctly represents the prime-factorisation of the number 5670?
(a) $2 \times 3 \times 3 \times 3 \times 3 \times 5 \times 7$
(b) $2 \times 3 \times 5 \times 7$
(c) $2 \times 2 \times 3 \times 3 \times 5 \times 5 \times 7$
(d) none of these
- Q.19.** What are the respective values of A and B in the given factor tree of the number 126?



- (a) 2 and 5 (b) 3 and 7
 (c) 6 and 2 (d) none of these

Q.20. What is the greatest common divisor of the numbers 630, 60 and 420?

- (a) 30 (b) 40 (c) 45 (d) 65

Q.21. What is the lowest common multiple of the numbers 24, 52 and 36?

- (a) 468 (b) 234
 (c) 936 (d) none of these

Q.22. Anil bought a bag containing 55 kg of masur *dal* and a bag containing 77 kg of rajma from a wholesale shop. He wants a container that can measure the quantities of dal in two bags (considering that the container will always be full) when used an exact number of times.

What should be the maximum capacity of the container?

- (a) 30 (b) 11 (c) 20 (d) 21

Q.23. If the number 6125_2 is divisible by 24, then which digit will fill the blank space?

- (a) 3 (b) 5 (c) 8 (d) 6

Q.24. Which of the following number is divisible by 45 ?

- (a) 32424 (b) 444195
 (c) 65692 (d) 234564



ANSWERS

1. (d) 2. (a) 3. (b) 4. (a) 5. (c) 6. (b) 7. (b) 8. (d)
 9. (b) 10. (b) 11. (d) 12. (a) 13. (c) 14. (d) 15. (a) 16. (c)
 17. (c) 18. (a) 19. (b) 20. (a) 21. (c) 22. (b) 23. (b) 24. (b)



NATIONWIDE INTERACTIVE MATHS OLYMPIAD (NIMO) SAMPLE PAPER

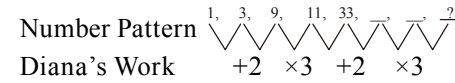
Total duration : 40 Minutes

Total Marks : 25

SECTION - A

MENTAL ABILITY

1. Diana made the diagram below to find the next term in a number pattern.



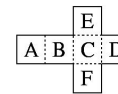
What should Diana write as the eighth term in the number pattern?
 (a) 37 (b) 105 (c) 107 (d) None of these

- 2.

Which of the following shows the image above reflected over the dotted line?

- (a) (b) (c) (d) None of these

3. Rachit folded the pattern below along the dotted lines to form a cube



When folded, which letter will be opposite to letter C?
 (a) E (b) F (c) D (d) None of these

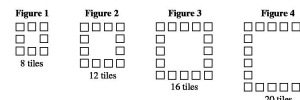
4. Nathan folded and taped a piece of cardboard to form the figure shown below.



Which of the following nets shows the unfolded figure?

- (a) (b) (c) (d)

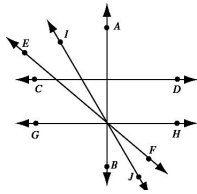
- 5.



If the pattern continues what would be the number of total tiles in 7th figure.

- (a) 24 tiles (b) 28 tiles (c) 32 tiles (d) None of these

SECTION - B
MATHEMATICS

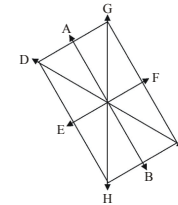


6.

In the figure given above which line is parallel to CD and perpendicular to AB

- (a) IJ (b) GH (c) EF (d) None of these
7. Which of the following shows 0.56 written in expanded notation?
(a) $(5 \times 10) + (6 \times 100)$ (b) $(5 \times 0.01) + (6 \times 0.001)$
(c) $(5 \times 0.1) + (6 \times 0.01)$ (d) None of these
8. Which number when added to 55×20 will be equal to the result of $58500 \div 50$?
(a) 50 (b) 40 (c) 70 (d) None of these
9. If the length of a paddy field is 100m and breadth is 80 cm. Then the ratio of its breadth to its perimeter is
(a) 5 : 4 (b) 4 : 5 (c) 2 : 9 (d) None of these
10. The value of $-x + [x + \{-x - (x + x)\}]$ is
(a) $-x$ (b) $-2x$ (c) $-3x$ (d) None of these
11. Three hundred sixty million five hundred eleven thousand, two hundred forty is represented in numbers as
(a) 365011204 (b) 360511240
(c) 360115240 (d) None of these
12. On earth there are about 10 000 000 000 000 ants and 6 000 000 000 humans. The ratio of humans to ants is approximately equal to:
(a) 60 000 to 1 (b) 1 666 667 to 1
(c) 1 to 1666.7 (d) None of these
13. The price of calculation has decreased from Rs. 120 to Rs. 90. What is the percentage of decrease?
(a) 30% (b) 25% (c) 75% (d) None of these
14. The L.C.M. of 42 and n is 462. Then n cannot be
(a) 33 (b) 66 (c) 88 (d) None of these
15. Which is a correct statement about vertical angles?
(a) Vertical angles are always acute.
(b) Vertical angles are always congruent
(c) Vertical angles are always supplementary
(d) None of these
16. Which word problem could be solved by using the equation $x + 6 = 15$?

- (a) Mary has 6 more homework problems to solve. If she had a total of 15 problems to solve, how many has she already completed?
(b) Mary has completed 15 homework problems. She has 6 more to solve. How many problems did she have for homework?
(c) Mary needs to complete 15 more problems for her math homework. She has completed a total of 6. How many problems will she complete for homework?
(d) None of these
17. There are 48 boys in the seventh grade. There are 2 boys for every 1 girl in the seventh grade. How many girls are in the seventh grade?
(a) 24 (b) 46 (c) 72 (d) 96
18. Which two lines segment are NOT lines of symmetry for the rectangle?



- (a) AB and EF (b) AB and DC
(c) GH and CD (d) None of these
19. Which of the following fraction is closest to 0?
(a) $-\frac{5}{12}$ (b) $-\frac{2}{3}$ (c) $\frac{5}{6}$ (d) None of these
20. A survey of 1000 registered voters revealed that 450 people would vote for candidate A in an upcoming election. If 220,000 people vote in the election, how many votes would the survey takers predict candidate A should receive?
(a) 44,500 (b) 99,000
(c) 95,000 (d) None of these
21. If 50% of a number is 20, what is 75% of the number?
(a) 8 (b) 15 (c) 30 (d) None of these

SECTION - C

INTERACTIVE SECTION

22. Lata has three jobs: walking the family dog, washing the dishes, and dusting.
- She walks the family dog once every 3 days.
 - She washes the dishes once every 4 days.
 - She dusts once every 6 days.

The calendar below shows that Lata did all three jobs on Monday the 2nd.

Calendar						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

On which day will Lata again do all three jobs on the same day?

- (a) Thursday the 5th (b) Saturday the 14th
(c) Wednesday the 18th (d) None of these

23. Which of the following data does not shows a constant rate of change.

(i)

Cup of milk	Pieces of chocolate made
2	24
4	48
6	72

(ii)

Number of pens	Price (Rs.)
6	30
12	60
18	90

(iii)

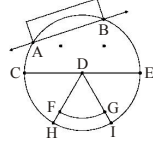
Time	km covered
3 hr.	45
6 hr.	90
12 hr.	180

(iv)

Games	Points scored
2	50
4	100
6	150

- (a) i, ii and iii (b) ii and iii
(c) only (iii) (d) None of these

24. Study the picture of 'Mr Circle, the Crown'. Given the following lengths, what would be the length of segment CE?



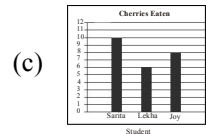
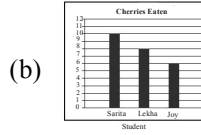
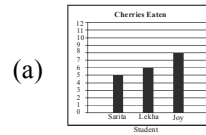
Segment GI = 10 millimetres

Segment DG = 30 millimetres

- (a) 80 millimeters (b) 40 millimeters
(c) 60 millimeters (d) None of these

25. Look at the tally chart at the top of the page. The tally chart shows the number of cherries each student ate. Which graph matches the tally marks in the chart?

Cherries Eaten	
Sarita	
Lekha	
Joy	



- (d) None of these

☺ END OF THE EXAM ☺

ANSWERS

1. (c) 2. (a) 3. (d) 4. (c) 5. (c)
6. (b) 7. (c) 8. (c) 9. (c) 10. (c)
11. (b) 12. (c) 13. (b) 14. (c) 15. (b)
16. (a) 17. (a) 18. (c) 19. (a) 20. (b)
21. (c) 22. (b) 23. (d) 24. (a) 25. (c)

