

Grade 5



CREST Mental Maths Olympiad (CMMO) Sample Paper

| Pattern and Marking Scheme |               |                     |                       |                |
|----------------------------|---------------|---------------------|-----------------------|----------------|
| Grade                      | Topic/Section | No. of<br>Questions | Marks per<br>Question | Total<br>Marks |
| Grade 5                    | Basique       | 80                  | 3                     | 240            |
|                            | Avance        | 20                  | 6                     | 120            |
| Grand Total                |               | 100                 |                       | 360            |

The total duration of the exam is 60 minutes.

**Note:** For every incorrect answer, there's a penalty of  $\frac{1}{3}$  rd of the total marks allotted to that question.

## Syllabus

#### **Knowing Our Numbers**

- a. System of numeration
- b. Comparison of numbers
- c. Estimation of numbers and place value of a number
- d. BODMAS rule
- e. Whole numbers
- f. Properties of whole numbers

#### Integers

- a. Integers
- b. Addition and subtraction of integers on number line
- c. Properties of integers over addition, subtraction, multiplication, division

## **Fractions and Decimals**

- a. Fractions: Operations and types
- b. Ascending and descending order of the fractions
- c. Decimals and their place values
- d. Operations on decimals

- e. Decimal fractions
- f. Ascending and descending order of the decimals

### **Playing With Numbers**

- a. Factors and multiples
- b. Prime numbers
- c. Composite numbers
- d. Divisibility rules
- e. Prime factorization
- f. H.C.F. and L.C.M.
- g. Play with patterns

### **Understanding Elementary Shapes**

- a. Lines and angles
- b. Classification of triangles, circle & quadrilateral
- c. Polygons
- d. 3D shapes

#### Mensuration

- a. Perimeter of rectangle
- b. Perimeter of square
- c. Perimeter of triangle
- d. Perimeter of closed figures
- e. Area of rectangle, square and combined figures

## **Data Handling and Symmetry**

- a. Pictographs, line graph and bar graph
- b. Symmetry Point & Reflection

## **Comparing Quantities**

- a. Percentage
- b. Speed, time and distance
- c. Profit and loss
- d. Problems on ages
- e. Average
- f. Ratio and proportion

For more details, visit https://www.crestolympiads.com/mental-maths-mmo

#### **Basique (Each Question is 3 Marks)**

| 1. | Write in numeral:<br>One hundred and sixteen million, O | ne hundred and ten thousand, and thirty-nine |
|----|---|--|
|    | a. 113,128,138  | b. 116,110,039                               |

| c. | 122,313 | 8,987 |  | d. <i>′</i> | 126,8 | 71,8 | 373 |  |  |
|----|---------|-------|--|-------------|-------|------|-----|--|--|
|    |         |       |  |             |       |      |     |  |  |

2. What is the difference between Ninety thousand, four hundred and ten to Nine hundred and twenty thousand, four hundred and four in numeral?

| a. | 829994 | b. | 839200 |
|----|--------|----|--------|
| c. | 845600 | d. | 855700 |

 What digits is in the hundredths place? 2463.3475

| a. | 3 | b. | 4 |
|----|---|----|---|
| c. | 5 | d. | 7 |

4. What is the total sum of natural numbers within the range of 1 and 100?

| a. | 2340 | b. | 3450 |
|----|------|----|------|
| C. | 4560 | d. | 5050 |

**5.** In a survey, it was found that 2/3 of the people prefer coffee over tea. If there were 150 respondents, how many people preferred coffee?

| a. | 80  | b. | 100 |
|----|-----|----|-----|
| C. | 120 | d. | 140 |

6. Which of the following numbers is divisible by 12?

| a. | 48062 | b. | 27568 |
|----|-------|----|-------|
| c. | 27296 | d. | 27840 |

7. Lena wants to divide a piece of ribbon into equal-length pieces. If she wants each piece to be 12 cm long, but her ribbon is only 180 cm long, what is the greatest number of pieces she can cut?

| a. | 12 | b. | 13 |
|----|----|----|----|
| C. | 14 | d. | 15 |

8. Sharon's height is 145.62 cm. She stands on a tool height of 10.50 cm. What is the combined height now?

| a. | 149.16 cm | b. | 156.12 cm |
|----|-----------|----|-----------|
| c. | 163.54 cm | d. | 171.67 cm |

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9. How many prime numbers are between 11 and 60?

| a. | 12 | b. | 14 |
|----|----|----|----|
| C. | 16 | d. | 18 |

10. If a shirt is on sale for 20% off its original price of \$50, what is the sale price?

| a. | \$40 | b. | \$42 |
|----|------|----|------|
| c. | \$44 | d. | \$46 |

**11.** If a company has 200 employees and 25% of them are part-time, how many part-time employees does it have?

| a. | 20 | b. | 30 |
|----|----|----|----|
| C. | 40 | d. | 50 |

12. Anni's current age is 7 years more than Sofia's age. Anni's age will be twice the age Sofia was 15 years ago. What is Sofia's present age?

| a. | 18 years | b. | 20 years |
|----|----------|----|----------|
| C. | 37 years | d. | 42 years |

**13.** What is the average of first four multiples of 8?

| a. | 24576 | b. | 25567 |
|----|-------|----|-------|
| c. | 26675 | d. | 28954 |

**14.** Identify the sequence which is in decreasing order.

| a. | 14.3506 > 14.3504 > 14.3497 > 14.3496 | b. | 14.3506 > 14.3496 > 14.3497 > 14.3504 |
|----|---------------------------------------|----|---------------------------------------|
| c. | 14.3497 > 14.3496 > 14.3506 > 14.3504 | d. | 14.3497 > 14.3496 > 14.3504 > 14.3506 |

**15.** What is one less than a hundred thousand?

| a. | 88888 | b. | 99990 |
|----|-------|----|-------|
| c. | 99909 | d. | 99999 |

**16.** Which of the following is the smallest number? 1856, 1937, 1872, 1928

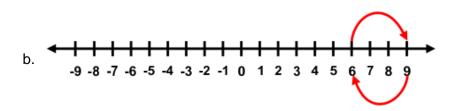
| a. | 1872 | b. | 1928 |
|----|------|----|------|
| c. | 1856 | d. | 1937 |

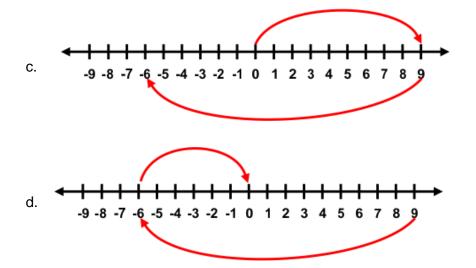
17. How many times does the digit 0 appear in one million?

| a. | 6 | b. | 3 |
|----|---|----|---|
| C. | 5 | d. | 2 |

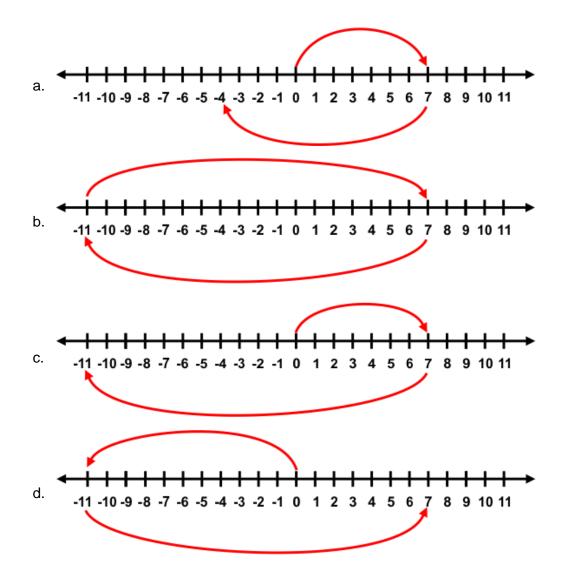
**18.** Which of the following pairs is not correct?

|               | Four thousand sixteen - 4016<br>Nine thousand ninety - 9019             |          | Two thousand two - 2002<br>Six thousand fifteen - 6015 |  |  |  |  |  |
|---------------|---|----------|--|--|--|--|--|--|
| <b>19.</b> Ho | 19. How many whole numbers are there between 81 and 101?                |          |  |  |  |  |  |  |
|               | 18<br>19  |          | 17<br>21   |  |  |  |  |  |
|               | nd the missing number:<br>x (170 + 35) = 50 × 170 + × 35                | 5        |  |  |  |  |  |  |
|               | 35<br>170   |          | 50<br>30   |  |  |  |  |  |
| 21. W         | hich is the smallest integer greater than all th                        | ne r     | egative integers?                                      |  |  |  |  |  |
|               | 0<br>-1   | b.<br>d. |  |  |  |  |  |  |
| <b>22.</b> Ho | ow many times will you add 17 to get 187?                               |          |  |  |  |  |  |  |
|               | 11<br>21  |          | 14<br>16   |  |  |  |  |  |
| 23. lf a      | a number is added to -8, the result is -2. What                         | at is    | the number?  |  |  |  |  |  |
|               | -6<br>6   | b.<br>d. | -3<br>4  |  |  |  |  |  |
|               | <b>24.</b> Use a number line and add the following integers: $9 + (-6)$ |          |  |  |  |  |  |  |
|               |   |          |  |  |  |  |  |  |
| a.            |   | 5        | + + + + →<br>6 7 8 9                                   |  |  |  |  |  |





**25.** Use number line and add the following integers: 7 + (-11)



#### **26.** Add:

15 and (-20)

#### **27.** Find:

 $25 \times 35 = (25 \times 30) + (25 \times ___)$ 

28. Fill in the blank with correct number:

|    |    | <u>85</u> : | = 7   |
|----|----|-------------|-------|
|    |    | 12          |       |
| a. | 13 |             | b. 15 |
| c. | 7  |             | d. 12 |

**29.** Convert 5/7 in the form of a fraction having 49 as the denominator.

| a. | 25/49 | b. | 35/49 |
|----|-------|----|-------|
| c. | 5/49  | d. | 30/49 |

**30.** Arrange the following fractions in decreasing order of magnitude. Use symbols to indicate the result:

.

| 9           | 12          | 23 |
|-------------|-------------|----|
| <b>25</b> ′ | <b>25</b> ′ | 25 |

| a. | $\frac{9}{25} >$ | $\frac{12}{25} <$ | $\frac{23}{25}$ | b. | $\frac{9}{25} >$ | $\frac{12}{25} >$ | $\frac{23}{25}$ |
|----|------------------|-------------------|-----------------|----|------------------|-------------------|-----------------|
| C. | $\frac{9}{25} <$ | $\frac{12}{25} <$ | 23<br>25        | d. | $\frac{9}{25}$ > | $\frac{12}{25} =$ | $\frac{23}{25}$ |

**31.** Arrange the decimals in ascending order: 0.2, 0.12, 0.35, 0.72

| a. | 0.12, 0.72, 0.35, 0.2 | b. | 0.72, 035, 0.2, 0.12  |
|----|-----------------------|----|-----------------------|
| C. | 0.12, 0.2, 0.35, 0.72 | d. | 0.12, 0.2, 0.72, 0.35 |

32. What is nine thousandth in decimal form?

| a. | 0.009 | b. | 0.09   |
|----|-------|----|--------|
| C. | 0.9   | d. | 0.0009 |

**33.** Write the following fraction in decimal form.

| a. | 2   | b. | 1.9 |
|----|-----|----|-----|
| c. | 2.2 | d. | 1.5 |

34. 1 metre equals 39.37 inches; how many inches are there in 12 metres?

|     |  | 472.44<br>483.2                                       |          | 470.2<br>480.2                 |  |
|-----|--|---|----------|--------------------------------|--|
| 35. | Wr   | ite all the factors of 36.                            |          |                                |  |
|     |  | 1, 2, 3, 6, 9, 18, 23<br>1, 2, 3, 4, 6, 9, 12, 18, 36 |          | 1, 23<br>0, 2, 3, 4, 8, 12, 36 |  |
| 36. | Wł   | nat is the smallest common multiple of 3 and          | 4?       |                                |  |
|     |  | 12<br>16  | -        | 15<br>18                       |  |
| 37. | Be   | low 10, there are prime numbers.                      |          |                                |  |
|     | a.<br>c.   | -   | b.<br>d. |                                |  |
| 38. | Но   | w many prime numbers are there which are              | les      | s than 30?                     |  |
|     |  | 10<br>50  |          | 30<br>20                       |  |
| 39. | <ul><li>39. Which of the following number are divisible by 6?</li><li>3277, 9582, 34646, 63587</li></ul> |   |          |                                |  |
|     |  | 9582<br>34646   | b.<br>d. | 3277<br>63587                  |  |

40. What is the prime factorisation of 100?

| a. | 2 x 2 x 5 x 5 | b. 2x2x2x5x5     |
|----|---------------|------------------|
| c. | 2 x 2 x 3 x 5 | d. 2 x 5 x 5 x 5 |

**41.** What is the prime factorisation of 342?

| a. | 2 x 3 x 3 x 3 x 19 | b. | 2 x 3 x 3 x 19      |
|----|--------------------|----|---------------------|
| C. | 2 x 2 x 3 x 3 x 19 | d. | 2 x 3 x 3 x 19 x 19 |

**42.** Which smallest number leaves in each case the reminder 6 when it is divided by 16, 24, 32, 40?

| a. | 386 | b. | 286 |
|----|-----|----|-----|
| C. | 486 | d. | 586 |

43. Which smallest number is exactly divisible by 18, 24, 30, 36?

| a. | 860 | b. | 380 |
|----|-----|----|-----|
| c. | 680 | d. | 360 |

44. Find the L.C.M. of 76, 95.

| a. | 280 | b. | 300 |
|----|-----|----|-----|
| c. | 760 | d. | 380 |

#### 45. What comes next in the given series?

5, 9, 13, 17, \_\_\_\_.

| a. | 19 | b. | 21 |
|----|----|----|----|
| C. | 23 | d. | 20 |

# **46.** What comes next in the given series? 121, 232, 343, \_\_\_\_\_.

| a. | 545 | b. 454 |
|----|-----|--------|
| C. | 453 | d. 455 |

#### 47. Which of the following option represent ray RS correctly?

| a. | R<br>•        | s<br>→→ |    | R<br>€─── | s      |
|----|---------------|---------|----|-----------|--------|
| C. | R<br><b>↓</b> | s →     | d. | R<br>•    | s<br>• |

48. A line segment is 8 cm long and is divided into 4 equal parts. What is the length of each part?

a. 4 b. 8 c. 3 d. 2

**49.** How many right angles make 180°?

a. Twob. Zeroc. Oned. Three

50. What is the angle name for one complete revolution?

a. Acute angleb. Obtuse Anglec. Complete Angled. Zero Angle

51. Two lines are said to be perpendicular to each other when they meet at\_\_\_\_\_ angle.

| a. | 90°  | b. | 360° |
|----|------|----|------|
| c. | 270° | d. | 180° |

52. How many triangles are there in the following figures?

|    |    |      | > |
|----|----|------|---|
| a. | 13 | b. 1 | 4 |
| c. | 10 | d. 1 | 1 |

53. What is the sum of the interior angle of a quadrilateral?

| a. | 270° | b. | 180° |
|----|------|----|------|
| c. | 90°  | d. | 360° |

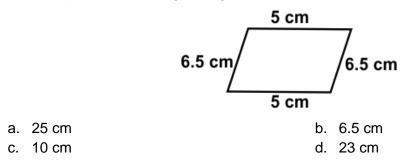
54. Which of the following are polygons?

|    |      | a.   | ь. | c.   |
|----|------|------|----|------|
|    |      | d. 🔵 | e. |      |
| a. | a, e |      | b. | d, b |
| C. | с, а |      | d. | b, e |

55. A 3D shape with one circular face and one flat face is called:

| a. | cylinder  | b. | cone  |
|----|-----------|----|-------|
| C. | rectangle | d. | prism |

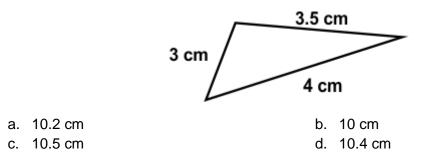
**56.** Find the perimeter of the given figure:



**57.** Find the perimeter of the rectangle whose sides are 5 cm and 2 cm:

| a. | 9.5 cm | b. | 14 cm |
|----|--------|----|-------|
| c. | 10 cm  | d. | 11 cm |

58. Find the perimeter of the given triangle:



59. Find the cost of fencing a square park of side 120 m at the rate of \$4 per metre.

| a. | \$1,920 | b. | \$1,900 |
|----|---------|----|---------|
| c. | \$1,980 | d. | \$1,960 |



60. Which figure has a greater area?

61. The area of a triangle with a base 6 cm and a height 4 cm is:

| a. | 14 cm <sup>2</sup> | b. | 12 cm <sup>2</sup> |
|----|--------------------|----|--------------------|
| c. | 24 cm <sup>2</sup> | d. | 36 cm <sup>2</sup> |

62. Find the area of the square whose one side is 2.5 cm long.

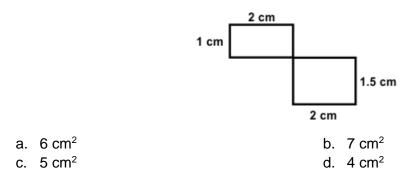
| a. | 6.5 cm <sup>2</sup>   | b. | $6.55 \text{ cm}^2$ |
|----|-----------------------|----|---------------------|
| c. | 6.225 cm <sup>2</sup> | d. | 6.25cm <sup>2</sup> |

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63. Find the area of the box whose length is 9 cm and breadth is 5 cm:

a.  $40 \text{ cm}^2$  b.  $28 \text{ cm}^2$ c.  $45 \text{ cm}^2$  d.  $25 \text{ cm}^2$ 

64. Find the area of the given figure:

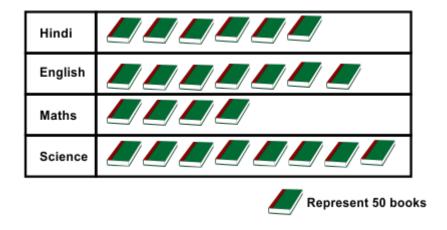


**65.** The following pictograph shows the number of computers sold by a company during a week. Scale Used = 5 computers.

From this pictograph answer the question: -How many computers were sold on Monday?

| Scale Used 🔜 = 5 computers |                                 |  |
|----------------------------|---------------------------------|--|
| Monday                     | $\Box \Box \Box \Box \Box$      |  |
| Tuesday                    | $\Box \Box \Box \Box$           |  |
| Wednesday                  | $\Box \Box \Box \Box$           |  |
| Thursday                   | $\Box \Box \Box \Box \Box \Box$ |  |
| Friday                     |                                 |  |
| Saturday                   | $\Box$                          |  |
|                            | b. 40                           |  |
|                            | d. 50                           |  |

- a. 20c. 30
- **66.** A school library has different subject books shown in the given pictograph. What is the total number of books in the library?



- a. 1150 books
- c. 1200 books

- b. 1250 books
- d. 1300 books
- **67.** Read the pictograph given below and answer the following question: What is the number of persons employed in government service?

| Job                   | Number of<br>Persons | Each<br>= 3000 persons |
|-----------------------|----------------------|------------------------|
| Private<br>Service    | ****                 |                        |
| Government<br>Service | ****                 |                        |
| Factory<br>Service    | ****                 | ***                    |

- a. 20000
- c. 30000

- b. 35000d. 28000
- **68.** Mr Robert made a pictograph below to show the number of cars washed at a car washing station three days a week.

From the pictograph, find the number of cars were washed on Friday:

| Days     | Number of<br>cars washed | One ( ) = 5  |
|----------|--------------------------|--------------|
| Friday   |                          |              |
| Saturday |                          | IJ<br>Ŭ<br>Ĵ |
| Sunday   | ¢                        |              |

| a. | 24 | b. | 16 |
|----|----|----|----|
| C. | 20 | d. | 22 |

69. How many lines of symmetry does a regular hexagon have?

| a. | 5 | b. | 7 |
|----|---|----|---|
| c. | 6 | d. | 4 |

70. Which of the following letters has point symmetry?

| a. | A | b. | М |
|----|---|----|---|
| C. | 0 | d. | Ρ |

71. A car travels at a speed of 55 km per hour for 4 hours. How far does the car travel?

| a. | 200 km | b. | 220 km |
|----|--------|----|--------|
| C. | 210 km | d. | 122 km |

**72.** A train travels a distance of 64 km at a speed of 8 km/h. How long does it take the train to travel this distance?

| a. | 3 hrs | b. | 2 hrs |
|----|-------|----|-------|
| C. | 6 hrs | d. | 8 hrs |

73. A shopkeeper buys a pencil for \$0.50 and sells it for \$0.75. How much profit does he make?

| a. | \$0.25 | b. | \$0.50 |
|----|--------|----|--------|
| c. | \$0.75 | d. | \$1    |

74. A man buys a watch for \$55 and sells it for \$70. What is his profit percentage?

| a. | 27.24% | b. | 27.39% |
|----|--------|----|--------|
| c. | 25.25% | d. | 27.27% |

75. A father is 48 years old. His son is half of his father's age. What is the son's age?

| a. | 22 | b. | 28 |
|----|----|----|----|
| C. | 24 | d. | 20 |

76. Morgan is thrice as old as his sister. If his sister's age is 8 years, how old is Morgan?

| a. | 32 | b. | 23 |
|----|----|----|----|
| C. | 24 | d. | 22 |

77. The marks of a student in 5 subjects are 80, 75, 90, 85, and 70. What is the average marks of the student?

| a. | 450 | b. | 50 |
|----|-----|----|----|
| C. | 400 | d. | 80 |

**78.** Find the average:

23, 37, 47, 61.

| a. | 42 | b. | 24 |
|----|----|----|----|
| C. | 64 | d. | 40 |

79. The ratio of boys to girls in a school is 5 : 3. How many boys are there if there are 90 girls?

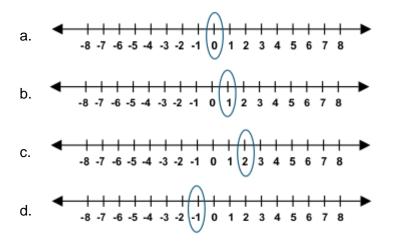
| a. | 165 | b. | 150 |
|----|-----|----|-----|
| C. | 120 | d. | 100 |

80. Express 32 : 60 in its simplest form.

| a. | 9 : 15 | b. | 16 : 15 |
|----|--------|----|---------|
| c. | 8 : 15 | d. | 9:20    |

#### Avance (Each Question is 6 Marks)

81. What is the difference between -4 and 5?

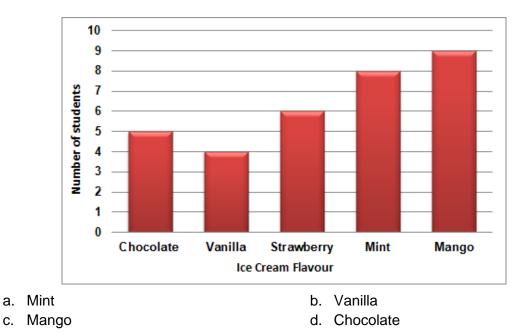


82. Out of 30 students in a class, 2/5 are boys. How many girls are in the class?

| a. | 12 girls | b. | 14 girls |
|----|----------|----|----------|
| c. | 18 girls | d. | 20 girls |

83. The given bar graph shows a survey was conducted to determine the favourite ice cream flavour of students in a class. Study it and answer the following.

Which flavour of ice cream is the most popular among the students in the class?



**84.** Mark received a 92% and a 78% on the first two maths tests. What grade must he receive on the third test to have an average of 84%?

| a. | 80% | b. | 82% |
|----|-----|----|-----|
| c. | 84% | d. | 86% |

**85.** The product of two numbers is 6272, and 4 times of one of the numbers is 256. What is the other number?

| a. | 89  | b. | 98  |
|----|-----|----|-----|
| C. | 100 | d. | 198 |

86. Sum of two integers is -80. If one of them is -90, then what will be the other integer?

| a. | -10 | b. | -80 |
|----|-----|----|-----|
| C. | 10  | d. | 5   |

87. Which fraction is the smallest?



88. What is the place value of 6 in the decimal number 12.56?

| a. | Thousandths | b. | Hundredths |
|----|-------------|----|------------|
| C. | Ones        | d. | Tenths     |

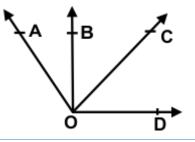
89. Which of the following number are divisible by 4? 36474, 216221, 209810, 99238, 394234, 20496516

| a. | 394234 | b. | 20496516 |
|----|--------|----|----------|
| c. | 216221 | d. | 36474    |

90. Which of the following can be drawn on a piece of paper?

| a. | A line | b. | A line segment |
|----|--------|----|----------------|
| c. | A ray  | d. | A plane        |

91. How many angles are formed in the given figure?

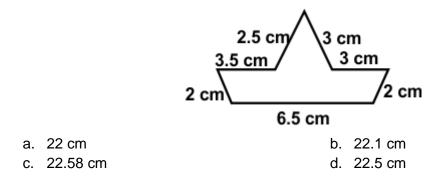


a. Nine b. Six c. Four d. Eight

92. The sum of the interior angles of a polygon with n sides is:

| a. | 180n | b. | 360n - 360 |
|----|------|----|------------|
| c. | 90n  | d. | 180(n - 2) |

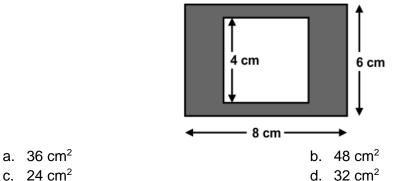
93. Find the perimeter of the figure given below:



94. Find the area of the tile which is 25 cm long and 12 cm wide.

| a. | 280 cm <sup>2</sup> | b. | $250 \text{ cm}^2$  |
|----|---------------------|----|---------------------|
| c. | 320 cm <sup>2</sup> | d. | 300 cm <sup>2</sup> |

95. A rectangle has a length of 8 cm and a width of 6 cm. A square with sides of length 4 cm is inscribed inside the rectangle. Find the area of the shaded region.



c. 24 cm<sup>2</sup>

96. Look at the pictograph representing a number of boys and girls in three classes. Answer the following questions:

- a. How many girls and boys are there in class II?
- b. Which class has more girls than boys?
- c. What is the difference in the number of girls and boys in class III?

| Class I   |                     |
|-----------|---------------------|
| Class II  |                     |
| Class III |                     |
|           | 👰 = 5 Boys, 😎 = 5 G |

| a. | a. 10 boys 2 | 5 girls, b. class l | I, c. 10 girls more |
|----|--------------|---------------------|---------------------|
|----|--------------|---------------------|---------------------|

- b. a. 10 boys 25 girls, b. class II, c. 10 boys more
- c. a. 20 boys 15 girls, b. class III, c. 5 girls more
- d. a. 15 boys 25 girls, b. class III, c. 10 boys more

**97.** Which of the following triangle has no lines of symmetry?

| a. | Isosceles | b. | Equilateral |
|----|-----------|----|-------------|
| c. | Scalene   | d. | Right       |

**98.** If a person can paint a room in 4 hours and another person can paint the same room in 6 hours, how long will it take for both people to paint the room together?

| a. | 3 hrs 24 min | b. | 2 hrs 24 min |
|----|--------------|----|--------------|
| c. | 2 hrs 48 min | d. | 2 hrs 14 min |

99. A person sold a goat at 6% loss. The selling price was \$3196. What was the cost price?

| a. | \$3,420 | b. | \$3,240 |
|----|---------|----|---------|
| C. | \$3,400 | d. | \$3,450 |

**100.** The ratio of red balls to blue balls in a bag is 3 : 4, how many blue balls are there if there are 18 red balls?

| a. | 54 | b. | 22 |
|----|----|----|----|
| c. | 20 | d. | 24 |

#### **Answer Key**

| 1.  | b | 2.   | а | 3.  | b | 4.  | d | 5.  | b | 6.  | d | 7.  | d |
|-----|---|------|---|-----|---|-----|---|-----|---|-----|---|-----|---|
| 8.  | b | 9.   | а | 10. | а | 11. | d | 12. | С | 13. | а | 14. | а |
| 15. | d | 16.  | С | 17. | а | 18. | С | 19. | С | 20. | b | 21. | а |
| 22. | а | 23.  | С | 24. | а | 25. | а | 26. | а | 27. | а | 28. | d |
| 29. | b | 30.  | С | 31. | С | 32. | а | 33. | d | 34. | а | 35. | С |
| 36. | а | 37.  | С | 38. | а | 39. | а | 40. | а | 41. | b | 42. | С |
| 43. | d | 44.  | d | 45. | b | 46. | b | 47. | а | 48. | d | 49. | а |
| 50. | С | 51.  | а | 52. | С | 53. | d | 54. | а | 55. | b | 56. | d |
| 57. | b | 58.  | С | 59. | а | 60. | d | 61. | b | 62. | d | 63. | С |
| 64. | С | 65.  | а | 66. | b | 67. | С | 68. | С | 69. | С | 70. | С |
| 71. | b | 72.  | d | 73. | а | 74. | d | 75. | С | 76. | С | 77. | d |
| 78. | а | 79.  | b | 80. | С | 81. | b | 82. | С | 83. | С | 84. | b |
| 85. | b | 86.  | С | 87. | С | 88. | b | 89. | b | 90. | b | 91. | b |
| 92. | d | 93.  | d | 94. | d | 95. | d | 96. | С | 97. | С | 98. | b |
| 99. | С | 100. | d |     |   |     |   |     |   |     |   |     |   |