MODEL TEST PAPER SUMMATIVE ASSESSMENT-I

(*Unsolved- 2*)

Time: 3hr. **Max Marks: 80**

GENERAL INSTRUCTIONS.

- Attempt all the questions neatly, showing the necessary working wherever required.
- Section-A (Q1- Q10): Each question carries 1 mark.
- Section-B (Q11- Q20): Each question carries 2 marks.
- Section-C (Q 21-Q 30): Each question carries 3 marks.
- Section-D (Q31- Q 35): Each question carries 4 marks.

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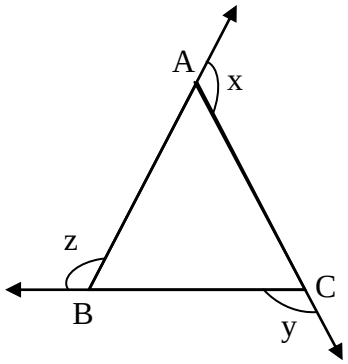
SECTION A

Q.1. The product of $\frac{5}{7}$ and the additive inverse of $\frac{-14}{10}$ is _____.

Q.2. How many natural numbers lie between squares of 25 and 26?

Q.3. The value of $\sqrt[3]{\frac{-64}{125}}$ is _____.

Q.4. Find the value of x + y + z in the give n figure :



Q.5. Simplify (x + 4) (x – 4).

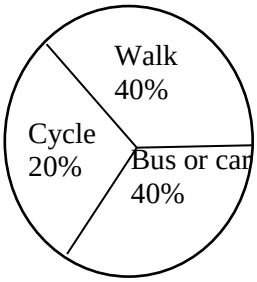
Q.6. If 5(x – 3) = –5 then x = _____.

Q.7. The class mark of the class interval 40- 50 is _____.

Q.8. If x = –1 then find the value of $x^3 + 2x^6$ is _____.

Q.9. Three angles of a quadrilateral are 70° each. What is the measure of the fourth angle ?

Q.10. In the given pie chart find the fraction of the circle representing Bus or Car as mode to transport.



SECTION B

Q.11. What should be added to $\frac{-9}{5}$ to get $\frac{-1}{3}$.

Q.12. A number multiplied by itself gives 676. Find the number.

Q.13. Evaluate: $\left\{\sqrt{4^2+3^2}\right\}^3$

Q.14. The exterior angle of a regular polygon is 24°. Find the number of sides of the polygon.

Q.15. By what least number should we multiply 240 to make it a perfect square?

Q.16. Find x if $6x = 23^2 - 17^2$.

Q.17. Solve for x: $9+5x=2\ (7x-9)$

Q.18. ABCD is a trapezium in which AB||CD. If $\angle A = \angle B = 40°$, then what is the measure of other two angles?

Q.19. Simplify: $17a^2 + 3a - 5a\ (a - 2)$

Q.20. Following frequency distribution table show marks (out of 50) obtained in Math Test by 45 students of class VIII.

Class Interval	Frequency
0- 10	1
10- 20	6
20- 30	12
30- 40	20
40- 50	6
Total	**45**

(i) What is the size of the class interval?

(ii) Which class has the highest frequency?

SECTION C

Q.21. Find six rational numbers between $\frac{-5}{3}$ and $\frac{-17}{6}$?

Q.22. Find the smallest number of 4 digits which is a perfect square.

Q.23. Solve for x: $\frac{x}{2}-\frac{1}{5}=\frac{x}{3}+\frac{1}{4}$

Q.24. Stating the property simplify the expression: $\left(\frac{9}{16}\times\frac{4}{12}\right)+\left(\frac{9}{16}\times\frac{-3}{9}\right)$

Q.25. Find the value of $(x^2 - 2y)(x + y)$ when $x = 1$ and $y = 2$.

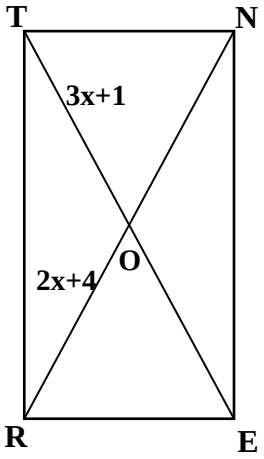
Q.26. The ratio between the interior angle and the exterior angle of a regular polygon is 7:2. Find the number of sides in the polygon.

Q.27. Solve: $\frac{3x+5}{2x+7}=4$.

Q.28. The volume of a cubical box is 32.768 cubic metre. Find the length of a side of the box.

Q.29. RENT is a rectangle with its dimensions in metres. It's diagonals meet at O.
If OR= 2x + 4, OT= 3x + 1. Find

(i) x
(ii) RN
(iii) TE



Q.30. The following table gives the marks scored by students in an entrance examination.

Marks	0- 10	10- 20	20- 30	30- 40	40- 50	50- 60
No. of students	4	10	16	22	20	18

Represent this data in the form of a histogram.

SECTION D

Q.31. On a particular day the sales (in rupees) of different items of a Baker's shop are given below:

Ordinary bread	Fruit bread	Cakes	Biscuits	Others
320	80	40	120	160

Draw a pie chart (Show all the calculations)

Q.32. An army general wishes to arrange his 10406 men in the form of a square. On doing so he found that 2 men were left. How many men were there in each row?

Q.33. (i) If $y-\frac{1}{y}=9$, find $y^2+\frac{1}{y^2}$.

(ii)Show that $(9a-5b)^2+180\,ab=(9a+5b)^2$.

Q.34. ABCD is a parallelogram in which $\angle DAO = 40^\circ$, $\angle BAO = 35^\circ$ and $\angle COD = 75^\circ$.

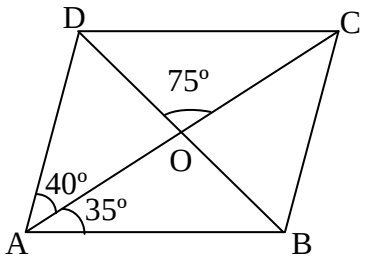
Find

(i) $\angle ACB$

(ii) $\angle ODC$

(iii) $\angle ABO$

(iv) $\angle ABC$



Q.35. Solve for x:

$$5x-2(2x-7)=2(3x-1)+\frac{7}{2}$$

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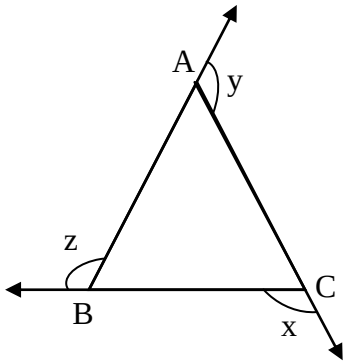
SECTION A

Q.1. The product of $\frac{5}{7}$ and the additive inverse of $\frac{21}{15}$ is _____.

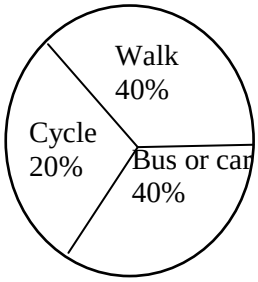
Q.2. How many natural numbers lie between squares of 30 and 31?

Q.3. The value of $\sqrt[3]{\frac{-125}{64}}$ is _____.

Q.4. Find the value of x + y + z in the figure below:



Q.5. In the given pie chart find the fraction of the circle representing cycle as mode to transport.



Q.6. Three angles of a quadrilateral are 80º each so the fourth angle will be _____.