

11

The Competition in

Advanced Mathematics Skills

Advanced Maths Test I & II

MODEL PAPERS

Class : VI



Eduranet

Intellectual Olympiad Foundation

(Promoted by Eduranet Educational Society (Regd. 309/09))

Hyderabad | India

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SYLLABUS**I) Algebra & Arithmetic**

1. Number System
2. Divisibility Test, Factors, Multiples, HCF and LCM
3. Exponents
4. Algebraic expression & Identities
5. Linear Equation in one variable
6. Ratio and Proportion

II) Geometry

1. Basic Geometrical Ideas and Understanding of Elementary Shapes
2. Mensuration
3. Data Handling
4. Symmetry, Reflection and Rotation
5. Practical Geometry

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ADVANCED MATHS TEST-I

Code : 1161

PRELIMS

Max. Marks : 75

Duration : 75 Mins.

General Instructions :

1. Please find the Answer Sheets (OMR) with in the envelop given to you.
2. Mention your Test Code, Student ID, Name, Class, Section and School Name on the OMR Sheet as per Question Paper and Hall Ticket.
3. This question paper contains 75 Questions, duration is 75 minutes.
4. Do rough work in the empty sheet provided along with this question paper.
5. Answer questions in OMR sheet only.
6. Don't write or tick anything on the question paper.
7. Use only Black or Blue Ball Point Pen or Dark Pencil to answer the question in OMR sheet.
8. Indicate the correct answer by darkening one of the 4 or 5 responses provided.
9. Submit only OMR sheet to the invigilator

-
-
1. Which of the following describes the rule for the below given pattern ?

15,18,17,20,19,22,21

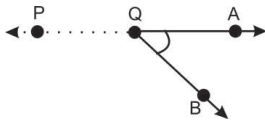
- | | |
|--------------------|----------------------|
| a) Add 3, add1 | b) Add 3, subtract 1 |
| c) Add,1 subtract3 | d) Subtract 3, add1 |
2. If n^5 is odd, which of the following is NOT correct-
- | | |
|------------------|-----------------|
| a) n is odd | b) n^2 is odd |
| c) n^3 is even | d) n^4 is odd |

9. Closure property is satisfied in whole numbers w.r.t to _____ and _____.
- a) addition and subtraction
 - b) addition and division
 - c) addition and multiplication
 - d) multiplication and division
10. The two consecutive numbers after 5009 are
- a) 5010, 5020
 - b) 50010, 50011
 - c) 5010, 5011
 - d) 5010, 5012
11. Mixed fraction for $\frac{39}{12}$ is:
- a) $3\frac{1}{12}$
 - b) $3\frac{2}{12}$
 - c) $3\frac{3}{12}$
 - d) $2\frac{14}{12}$
12. If a & b are two whole numbers, then commutative law is applicable to subtraction if and only if
- a) $a = b$
 - b) $a \neq b$
 - c) $a > b$
 - d) $a < b$
13. The value of $555 \times 193 - 555 \times 93$ is
- a) 555,931
 - b) 1,210,321
 - c) 53,912
 - d) 55,500
14. On dividing 55,390 by 299 the remainder is 75. The quotient is
- a) 195
 - b) 185
 - c) 175
 - d) 193
15. What least number must be subtracted from 13,601 to get a number exactly divisible by 87 ?
- a) 25
 - b) 29
 - c) 27
 - d) 23

16. Which of the following statements is always correct about parallelograms?

- a) All angles are congruent
- b) All sides are congruent
- c) Adjacent sides are perpendicular
- d) opposite sides are parallel.

17. Choose the correct word to complete the statement:



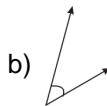
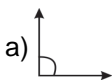
$\angle AQB$ angle.

- a) Reflex
- b) Right
- c) Acute
- d) Obtuse

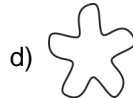
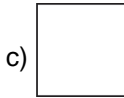
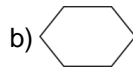
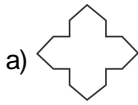
18. Two adjacent sides of a parallelogram are equal and the included angle is a right angle. what is the specific name for this figure.

- a) Rhombus
- b) Trapezium
- c) Rectangle
- d) Square

19. Which of the following angles is Right angle ?



20. Which one of the following figure is the hexagon?



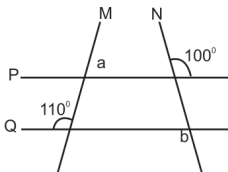
21. **ABCD is a parallelogram in which $\angle DAB = 75^\circ$ and $\angle DBC = 60^\circ$ then $\angle CDB = \dots\dots$**

- a) 60° b) 75° c) 45° d) 135°

22. **In a quadrilateral PQRS, if $\angle P = \angle R = 100^\circ$ and $\angle S = 75^\circ$ What is the measure of $\angle Q$?**

- a) 50° b) 85° c) 120° d) 360°

23. **In the adjoining figure, line $P \parallel$ line Q and line M and N are transversals. As per information in figure, find $m\angle a + m\angle b$.**



- a) 225° b) 90° c) 180° d) 170°

24. **A sum of money lent out at S.I amounts to Rs. 2,800 in 4 years and to Rs. 2,200 in 1year. What is the principal ?**

- a) Rs. 500 b) Rs. 1,000 c) Rs. 1,500 d) Rs. 2,000

25. **18 of $[59 - \{7 \times 8 + (26 - 3 \text{ of } 5)\}]$**

- a) -188 b) $+144$ c) -144 d) none

26. If the exponent of a negative integer is odd then the result is a ___ integer.

- a) positive b) negative c) 0 d) none

27. A man walked 3 km towards North then 8 km towards South. His position at the end of the walk is

- a) 5 km towards East b) 3 km towards South
c) 8 km towards North d) 5 km towards South

28. Which number should come in place of \square ?

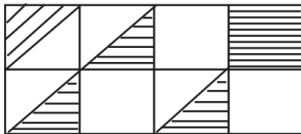
$$\frac{1}{7} + \frac{2}{7} + \frac{\square}{7} = 1\frac{3}{7}$$

- a) 1 b) 2 c) 3 d) 7

29. Simplified value of $2\frac{1}{2} + 3\frac{5}{7} \times \frac{3}{13} - \frac{1}{2} \div 4$ is

- a) $\frac{188}{56}$ b) $-\frac{181}{56}$ c) $-3\frac{13}{56}$ d) $3\frac{13}{56}$

30. Represent the shaded region in fraction form.



- a) $\frac{3}{8}$ b) $\frac{5}{8}$ c) $\frac{6}{8}$ d) $\frac{7}{16}$

31. Expanded form of $(-ab)^4$ is

- a) $(-ab) \times (-ab) \times (-ab) \times (-ab)$
b) $4 \times (-ab)$
c) $(-ab) \times (-ab)$
d) $(-ab) \times (-ab) \times (-ab)$

32. The statement which holds correct is

- a) $N \subset W \subset I$ b) $I \subset N \subset W$
c) $N \subset N \subset I$ d) $I \subset W \subset N$

33. Product of $\frac{12}{24}$ and $\frac{36}{72}$ is

- a) $\frac{16}{24}$ b) $\frac{3}{5}$ c) 4 d) $\frac{1}{4}$

34. A badminton player won 6 games and lost 4. The fraction of the games he won is

- a) $\frac{6}{4}$ b) $\frac{4}{6}$ c) $\frac{6}{10}$ d) $\frac{5}{10}$

35. Guru reads $\frac{3}{5}$ of a book. He finds that there are still 80 pages left to be read. Total number of pages in the book are

- a) 100 b) 200 c) 300 d) 400

36. The value of $3\frac{1}{12} - \left[1\frac{3}{4} + \left\{ 2\frac{1}{2} - \left(1\frac{1}{2} - \frac{1}{3} \right) \right\} \right]$ is

- a) $\frac{1}{2}$ b) 2 c) 1 d) 0

37. The daily consumption of milk of a family is $3\frac{1}{4}$ litres. The quantity of milk consumed by the family during the month of September 2003 is

- a) 90 lit b) $100\frac{1}{2}$ lit
c) $97\frac{1}{2}$ lit d) none

Number of years in which there were more than twice as many students in medical schools as there were in 1950 is

- a) None
- b) one
- c) Two
- d) Three

44. Four classes at Green’s Elementary School participated in the student election.

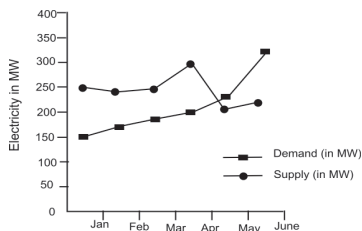
Read the table and answer the following question.

Classes	VI	VII	VIII	IX
Raja	12	14	10	12
Joseph	8	11	14	13
Anthony	15	12	10	11
Shikhar	10	11	13	13

Number of students in class VIII who voted for Anthony is

- a) 7
- b) 10
- c) 18
- d) 15

45. The following graph shows the supply and demand of electricity of a town for first six months of the year.



Based upon the above graph answer the following question.

Number of months, the supply was greater than the demand is

- a) 3
- b) 4
- c) 5
- d) 6

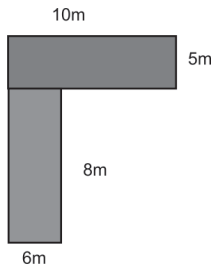
46. The marks(out of 10) obtained by 28 students in a Mathematics test are listed as below :

8,1,2,6,5,5,5,0,1,9,7,8,0,5,8,3,0,8,10,10,3,4,8,7, 8,9,2,0

The number of students who obtained marks more than or equal to 5 is

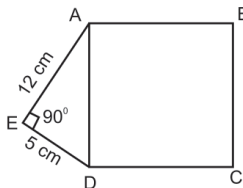
- a) 13 b) 15 c) 16 d) 17

47. Area of the shaded figure is



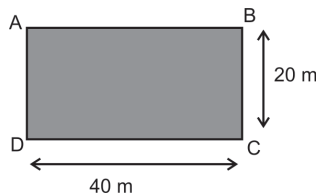
- a) 2400 sq m b) 48 sq m c) 50 sq m d) 98 sq m

48. The area of the square ABCD in the given figure is



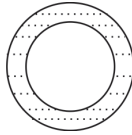
- a) 60 cm² b) 90 cm² c) 169 cm² d) 144 cm²

49. A rectangle field ABCD IS 40 m × 20 m. Total cost to fill the field if 10 sqm of field can be filled for Rs.60, is

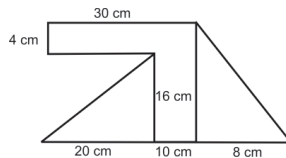


- a) Rs. 4800 b) Rs. 9600
c) Rs. 2400 d) Can't be calculated

55. Find the area of shaded portion if radii of inner and outer circle are 210 mm and 224 mm respectively.



- a) 19096 sq. mm b) 47040 sq. mm
c) 13860 sq. mm d) 21624 sq. mm
56. Find the area of the given figure :



- a) 224 cm² b) 424 cm²
c) 360 cm² d) 284 cm²
57. $\frac{x}{4} - \frac{y}{6} = 3$ and $\frac{x}{2} - y = -2$ then find the values of x, y
- a) x = 20 and y = 12 b) x = 12 and y = 20
c) x = 10 and y = 24 d) x = 15 and y = 20

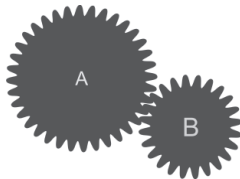
58. The solution of $0.2(2x - 1) - 0.5(3x - 1) = 0.4$ is

- a) $\frac{1}{11}$ b) $-\frac{1}{11}$ c) $\frac{3}{11}$ d) $-\frac{3}{11}$

59. The ratio of two numbers is a : b. If one of them is x, then other is

- a) $\frac{ab}{x}$ b) $\frac{b}{ax}$ c) $\frac{b}{a+b}x$ d) $\frac{bx}{a}$

71. An electric pole casts a shadow of length 20 meters at a time when a tree 6 meters high casts a shadow of length 8 metres, then the height of the pole is
- a) 15 m b) 51 m c) 20 m d) 8 m
72. In an office the working hours are 10.30 AM to 5.30 PM and in between 30 minutes are spent on lunch. The ratio of office hours to the time spent for lunch is
- a) 7 : 30 b) 1 : 14 c) 14 : 1 d) 30 : 7
73. Ratio of number of boys to number of girls in a tutorial is 2 : 3. If there are 180 girls the number of boys is
- a) 36 b) 60
c) 120 d) 100
74. Two gear wheels A and B are in contact. One wheel (A) has 36 teeth, the other wheel (B) has 24 teeth. The number of times must the smaller wheel turn before the larger wheel completes a revolution is



- a) $1\frac{1}{2}$ b) 2 c) $2\frac{1}{2}$ d) 3
75. Mala and Bala got 75 marks and 25 marks in an examination. Find the ratio of the marks scored by Mala to the total marks obtained by both of them?
- a) 3 : 4 b) 3 : 1
c) 1 : 3 d) 4 : 3

KEY TO MODEL PAPER - I

- | | | | | | |
|-------|-------|-------|-------|-------|-------|
| 1. b | 2. c | 3. b | 4. b | 5. c | 6. b |
| 7. c | 8. c | 9. c | 10. c | 11. c | 12. a |
| 13. d | 14. b | 15. b | 16. d | 17. c | 18. d |
| 19. a | 20. b | 21. c | 22. b | 23. d | 24. d |
| 25. c | 26. b | 27. d | 28. d | 29. d | 30. a |
| 31. a | 32. a | 33. d | 34. c | 35. b | 36. d |
| 37. c | 38. b | 39. d | 40. d | 41. c | 42. a |
| 43. d | 44. b | 45. b | 46. d | 47. d | 48. c |
| 49. a | 50. d | 51. c | 52. a | 53. a | 54. d |
| 55. a | 56. b | 57. a | 58. b | 59. d | 60. a |
| 61. a | 62. d | 63. d | 64. c | 65. d | 66. a |
| 67. b | 68. a | 69. b | 70. c | 71. a | 72. c |
| 73. c | 74. a | 75. a | | | |

ADVANCED MATHS TEST-II

Code : 1162

FINALS

Max. Marks : 60

Duration : 60 Mins.

General Instructions :

1. Please find the separate Answer Sheets along with the question paper.
2. Mention your Test Code, Student ID, Name, Class, Section, Contact no. and School Name on the Answer Sheet as per Question Paper and Hall Ticket.
3. This question paper contains VI sections, duration is 60 minutes.
4. Please read the instructions carefully before attempting the question.
5. Answer questions in Answer Sheet only.
6. Don't write or tick anything on the question paper.
7. Use only Black or Blue Ball Point Pen to answer the question in Answer Sheet.
8. Submit only answer sheet(s) to the invigilator.

SECTION - I

10 × 1 = 10

DIRECTIONS : (1 – 10) : Complete the following statements with an appropriate word/term to be written in the answer sheet.

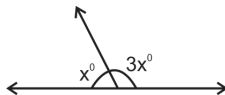
1. When a number is divided by 125, the remainder is 82, When the same number is divided by 25, the remainder will be _____.
2. $\frac{101+103+105+\dots+199}{1+3+5+7+\dots+99}$ is equal to _____
3. The HCF of $\frac{2}{5}$, $\frac{6}{25}$ and $\frac{8}{35}$ is _____
4. Value of x in $2(3x+1) - 7 = 13$, is _____

5. Length of a room is 30m and its breadth is 20m, So, the ratio of length to breadth of the room is _____
6. _____ is a factor of 1113.
7. $7^{6n} - 6^{6n}$, where n is an integer > 0 , is divisible by _____.
8. The exponential form of $\sqrt{\sqrt{2} \times \sqrt{3}}$ is _____.
9. Order of rotational symmetry is _____
10. When the perimeter and area of a square are numerically equal, then the numerical value of its side is _____

SECTION - II**10 x 1 = 10**

DIRECTIONS: (11 - 20) – Read the following statements and write true or false with reasons or solutions; in the answer sheet.

11. The rational numbers $\frac{1}{3}$ and $\frac{-7}{3}$ are on opposite sides of 0 on the number line.
12. There is end to the multiples you can get for a particular number.
13. Expression of $[(3^2)^4 \times 2^8] \times 6^5 + 6^2$ is equal to 6^{12}
14. Quotient of y by 5 added to x is $\frac{y}{x} + 5$
15. In the given figure magnitude of angles shown are 45° , 135°



16. If $4^x - 4^{x-1} = 24$ then value of $(2x)^x$ is $5 \times 5^{\frac{5}{2}}$
17. $100 - 4[25 - \{5 + 12 - 9\}] = (+ 32)$
18. 3 is the root of $\frac{x+1}{2} + \frac{x-1}{2} = 3$

19. The average of a 6 numbers is 8. If 2 is subtracted from each of these numbers, then the total of new number is 36.
20. The length of a rectangle is $\frac{6}{5}$ th of its breadth. If its perimeter is 132 m, its area is 1808 m²

SECTION - III

10 × 1 = 10

DIRECTIONS : (21 - 30) – Each question contains statements given in two columns which have to be matched. Match the statements (21,22,...30) in column I with statements (A,B,...P) in column II . Arrange the matched statements in order and write in the answer sheet.

Column - I

Column - II

21) 132,72,1320,8612 Numbers are divisible by

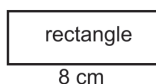
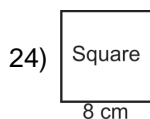
A) 39

22) $\frac{81 \times 7^3 \times 100}{10^2 \times 3^4 \times 7} =$

B) 0.2

23) The value of $\sqrt[3]{\sqrt{0.000064}}$

(C) 2 and 3



D) Infinite Numbers

The area of the square is twice that of the rectangle. Perimeter of the rectangle is

of lines of symmetry

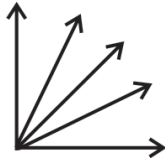
25) Circle

E) 49

26) $5[4x - 3\{10x - 2(2x + 5)\}] - 9 = 1$ then x =

F) 110

27) How many angles are there in the given figure.



G) 24 cm

28) The base of an isosceles right triangle is 30 cm. Its area is

H) 6 times the area of the rectangle

29) $\frac{36}{63} = \frac{-4}{\square}$

I) 4

30) $2805 \div 2.55 = 1100$ then
 $2805 \div 25.5 =$

J) 10

K) 2

L) No line symmetry

M) 5

N) 225 cm^2

O) -7

P) 4 and 2

SECTION - IV

$10 \times 1 = 10$

Directions : (31 - 40) **Identify the correct answer from the given options and write in the answer sheet.**

31. The value of $5 - \frac{5}{1 + \frac{1}{3 + \frac{1}{2 + \frac{1}{4}}}}$ is

a) $\frac{40}{31}$

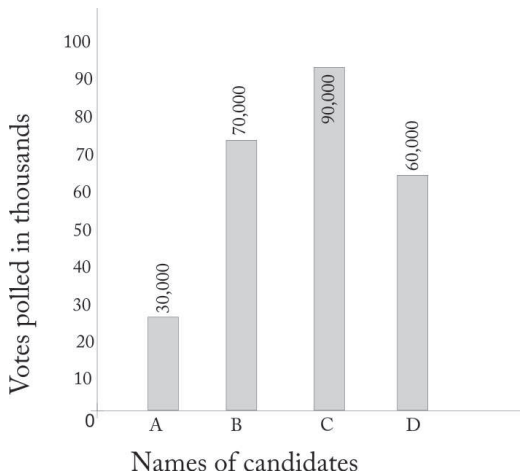
b) $\frac{4}{9}$

c) $\frac{9}{8}$

d) $\frac{31}{40}$

32. 67,61,p,q,r,s, 41 is an arrangement of prime numbers in a decreasing order. Among the following, which is the number 53,
a) P b) q c) r d) s
33. When $x = \sqrt{3}$, then the value of $2x^4 - x^2 + 5x - 4\sqrt{3}$ is
a) $15 + \sqrt{2}$ b) $15 - \sqrt{2}$ c) $15 - \sqrt{3}$ d) $15 + \sqrt{3}$
34. What is the value of $\frac{P+Q}{P-Q}$, if $\frac{P}{Q} = 7$?
a) $\frac{4}{3}$ b) $\frac{2}{3}$ c) $\frac{2}{6}$ d) $\frac{7}{8}$
35. In a college, $\frac{1}{4}$ of the students walk to college $\frac{1}{4}$ comes by car and the remaining 1300 come by bus.
No of students in the college is
a) 3000 b) 2600 c) 3200 d) 3500
36. How many times does the 29th day of the month occur in 400 consecutive years?
a) 4497 b) 1237 c) 5012 d) 4126
37. The ratio of number of males to number of females in a club are 7 : 4. If there are 84 males in the club, the total number of members in the club are
a) 126 b) 132 c) 136 d) 148
38. If ABCD is a parallelogram, then $\angle A - \angle C =$ ____
a) 180° b) 0° c) 360° d) 90°
39. The sides of a triangle are 11 cm, 15 cm and 16 cm. The altitude to largest side is
a) $30\sqrt{7}$ cm b) $\frac{15\sqrt{7}}{2}$ cm c) $\frac{15\sqrt{7}}{4}$ cm d) 30 cm

DIRECTIONS : (40) Study the graph and answer the question.



40. If 1000 votes are declared invalid and total number of votes in the constituency is 4,00,000 what is the percentage of voting?
- a) 60% b) 62.75% c) 70% d) 72.25%

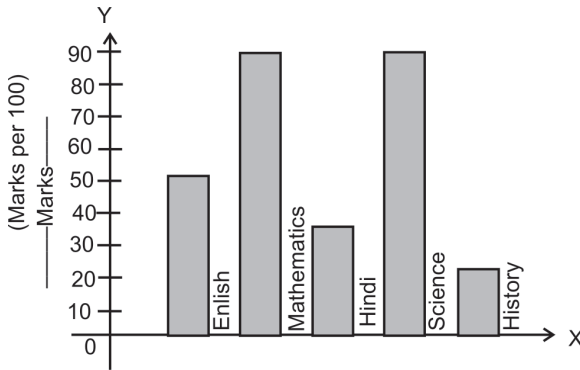
SECTION - V

10 × 1 = 10

DIRECTIONS: (41 - 50) – Choose the correct answers (More than one correct answer) from the given options and write in the answer sheet.

41. Which of the following equations is completely true with respect to BODMAS.
- a) $3 \times 3 + 3 = 18$ b) $(7+4) \times 3 = 33$
c) $5 + 5 \times 0 = 0$ d) $(8 \div 2) + 5 = 9$
42. Which of the following statement is false
- a) 1 is the smallest prime number
b) Every prime number is an odd number
c) The sum of two prime numbers is always a prime number
d) None of these

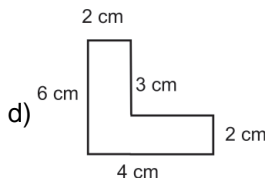
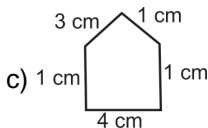
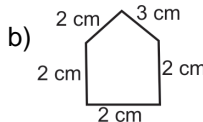
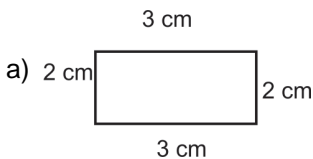
Directions : Read the following graph and answer the question given below :



49. At which subject is the student sharp?

- a) English
- b) Mathematics
- c) Science
- d) History

50. Which of the following perimeter is same



SECTION - VI

10 × 1 = 10

Assertion & Reason

DIRECTIONS : (51-60) – Each of these questions contains an Assertion followed by reason. Read them carefully and answer the question on the basis of following options. You have to select

the one that best describes the two statements and write in the answer sheet.

- a) If both **Assertion** and **Reason** are **correct** and Reason is the **Correct explanation** of Assertion.
- b) If both **Assertion** and **Reason** are correct, but Reason is **not the correct explanation** of Assertion.
- c) If **Assertion** is **correct** but **Reason** is **incorrect**.
- d) If **Assertion** is **incorrect** but **Reason** is **correct**.

51. **Assertion:** If L.C.M. of two numbers 6 and 8 is 24, then their H.C.F is 2.

Reason: First number \times Second number = L.C.M \times H.C.F

52. **Assertion:** $x = 2$ is a solution of the equation $2 - x = 4$.

Reason: $x = -2$ satisfies the equation $2 - X = 4$

53. **Assertion:** A ratio can be equal to 1.

Reason: Ratio is unity, provided both numerator and denominator are equal.

54. **Assertion:** If radius of a circle is 5 cm, then its diameter is 10 cm.

Reason: A part of a circumference is called an arc.

55. **Assertion:** If a square has a length of 4 cm, then its perimeter is 8 cm.

Reason: Perimeter of a square is given by the summation of all of its sides.

56. **Assertion:** If base and height of a triangle are 6 cm and 8 cm respectively, then its area is 24 cm^2 .

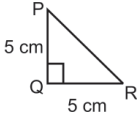
Reason: Area of a triangle = $\frac{1}{2} \times \text{base} \times \text{height}$

57. **Assertion:** In the equation. $7p - 12 = 2$, the variable is p.

Reason: p is the unknown that varies

58. **Assertion:** $3 : 5 :: 9 : 15$ are equivalent ratios.

Reason: Both ratios are equal, when simplified.

59. **Assertion:** In a figure  $PQ \perp QR$, $PQ = 5$ cm,

$QR = 5$ cm

$\triangle PQR$ is Right angle triangle

Reason : $\triangle PQR$ is isosceles right angle triangle

60. **Assertion:** The equation $0.2(2x - 1) - 0.5(3x - 1) = 0.4$ has solution.

Reason: $x = 11$ is solution.

SOLUTIONS TO MODEL PAPER - II**SECTION – I****Fill in the Blanks**

- 1) 7 2) 3 3) $\frac{2}{175}$ 4) 3
- 5) 3:2 6) 3, 7, 53 7) 13 8) $b^{\frac{1}{4}}$
- 9) $\frac{360^{\circ}}{\text{Angle of rotation}}$ 10) 4

SECTION – II**True / False**

- 11) True 12) False 13) False 14) False
- 15) True 16) False 17) True 18) True
- 19) True 20) False

SECTION – III**Match the Following**

- 21) → P; 22) → E; 23) → B; 24) → G;
- 25) → D; 26) → K; 27) → J; 28) → N;
- 29) → O; 30) → F

SECTION – IV**Multiple Choice Questions**

- 31) c 32) b 33) d 34) a
- 35) b 36) a 37) b 38) b
- 39) c 40) b

SECTION – V**More than one correct answers**

- 41) a,c 42) a,b,c,d 43) a,c 44) a,b,c,d
45) a,b,c 46) a,b,d 47) b,d 48) b,c
49) b,c 50) a,c

SECTION – VI**Assertion & Reason**

51. a) If both **Assertion** and **Reason** are **correct** and Reason is the **Correct explanation** of Assertion.
52. d) If **Assertion** is **incorrect** but **Reason** is **correct**.
53. a) If both **Assertion** and **Reason** are **correct** and Reason is the **Correct explanation** of Assertion.
54. b) If both **Assertion** and **Reason** are correct, but Reason is **not the correct explanation** of Assertion.
55. d) If **Assertion** is **incorrect** but **Reason** is **correct**.
56. a) If both **Assertion** and **Reason** are **correct** and Reason is the **Correct explanation** of Assertion.
57. a) If both **Assertion** and **Reason** are **correct** and Reason is the **Correct explanation** of Assertion.
58. a) If both **Assertion** and **Reason** are **correct** and Reason is the **Correct explanation** of Assertion.
59. a) If both **Assertion** and **Reason** are **correct** and Reason is the **Correct explanation** of Assertion.
60. c) If **Assertion** is **correct** but **Reason** is **incorrect**.