



**August 2020**

Dear **Shriya**,  
Congratulations on the incredible effort ! Here is a detailed feedback for you to succeed further.

**SUBJECT: MATHEMATICS**

<b>Your Current Score</b>	<b>550</b>
<b>Percentile</b>	<b>75%</b>





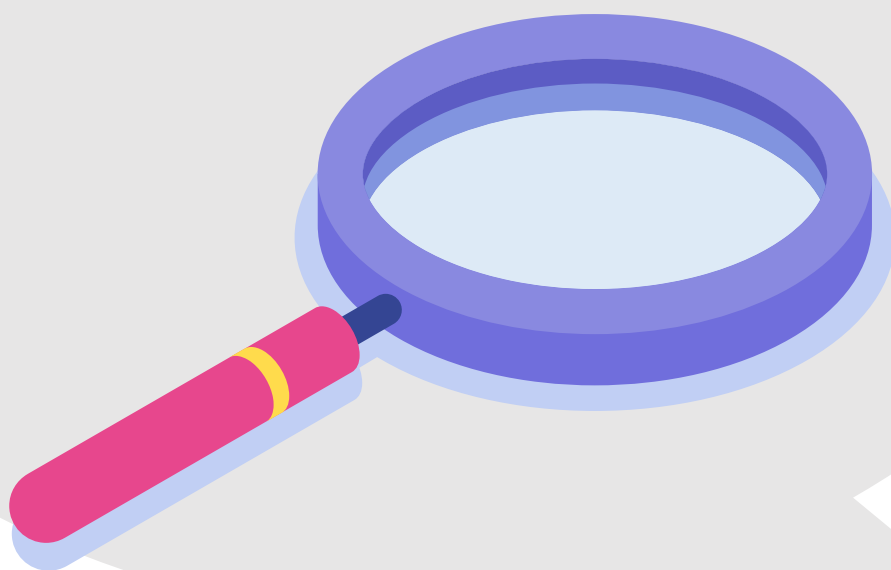
**Next >**

## **YOUR REPORT - IN DEPTH**

**SECTION 1 : Your Overall Scores & Ability level in detail**

**SECTION 2 : Your Subject Area Wise Performance**

**SECTION 3 : Your Question-wise Performance**



Subject : MATHEMATICS SECTION 1 : SCORES & ABILITY LEVEL IN DETAIL

Current Score is 340 & You are at Level 1  
Student remembers and demonstrates understanding of mathematical concepts



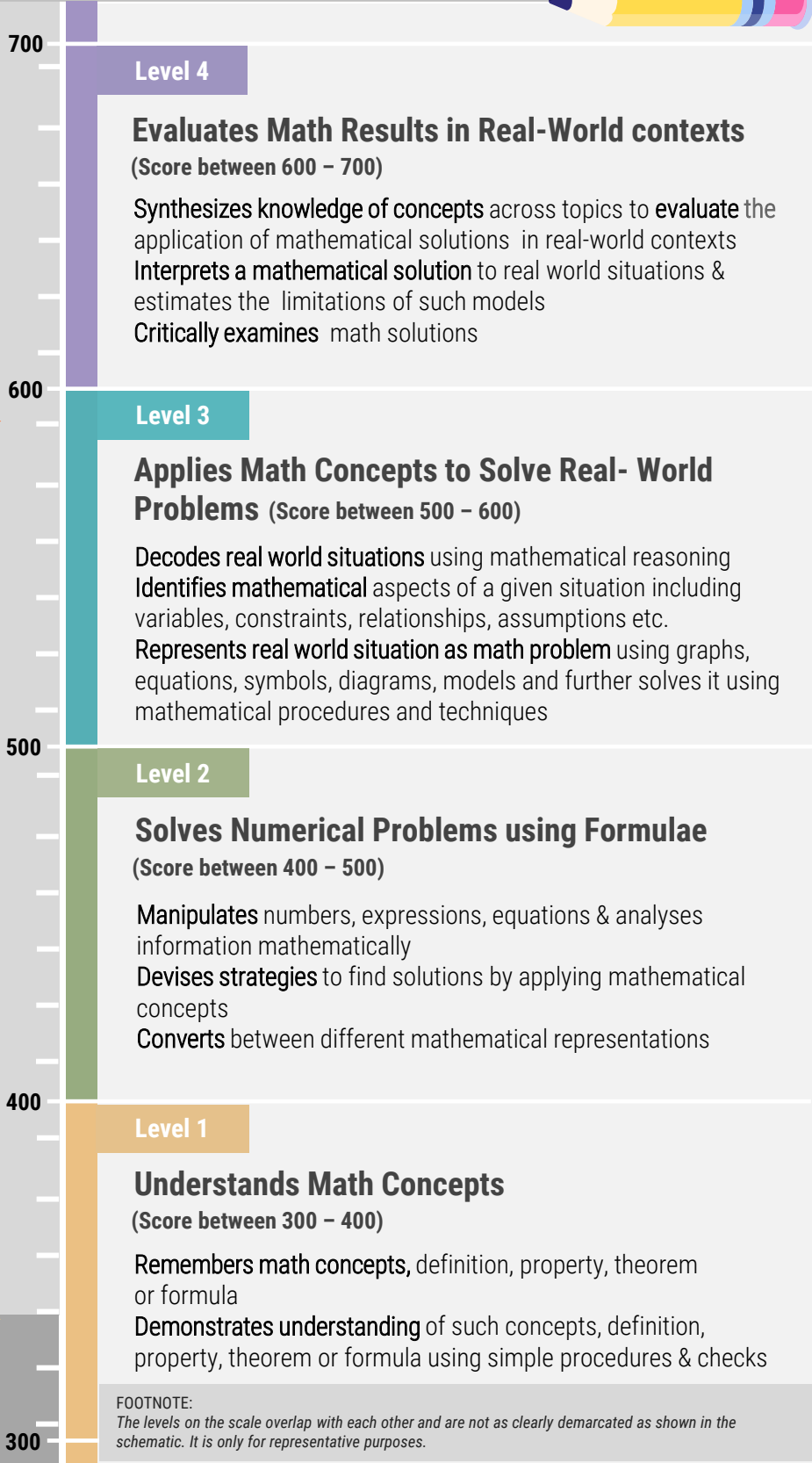
YOUR SCORES IN DETAIL ▼

595

Vedantu Average

340

Current Score



Subject : MATHEMATICS SECTION 1 : SCORES & ABILITY LEVEL IN DETAIL

Current Score is 466 & You are at Level 2

Student is able to employ knowledge of concepts and related procedures to solve mathematical expressions



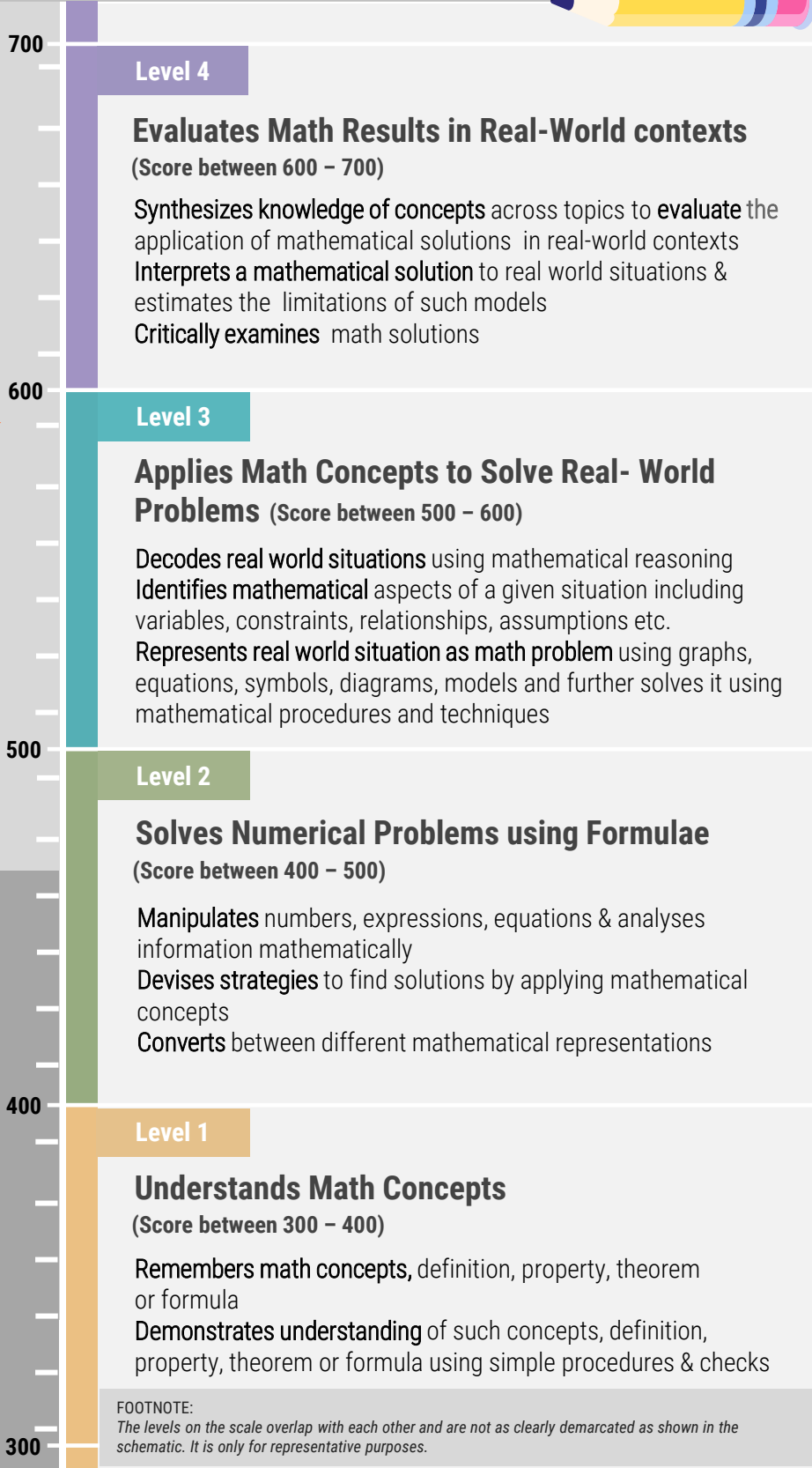
YOUR SCORES IN DETAIL ▼

595

Vedantu Average

466

Current Score



Subject : MATHEMATICS SECTION 1 : SCORES & ABILITY LEVEL IN DETAIL

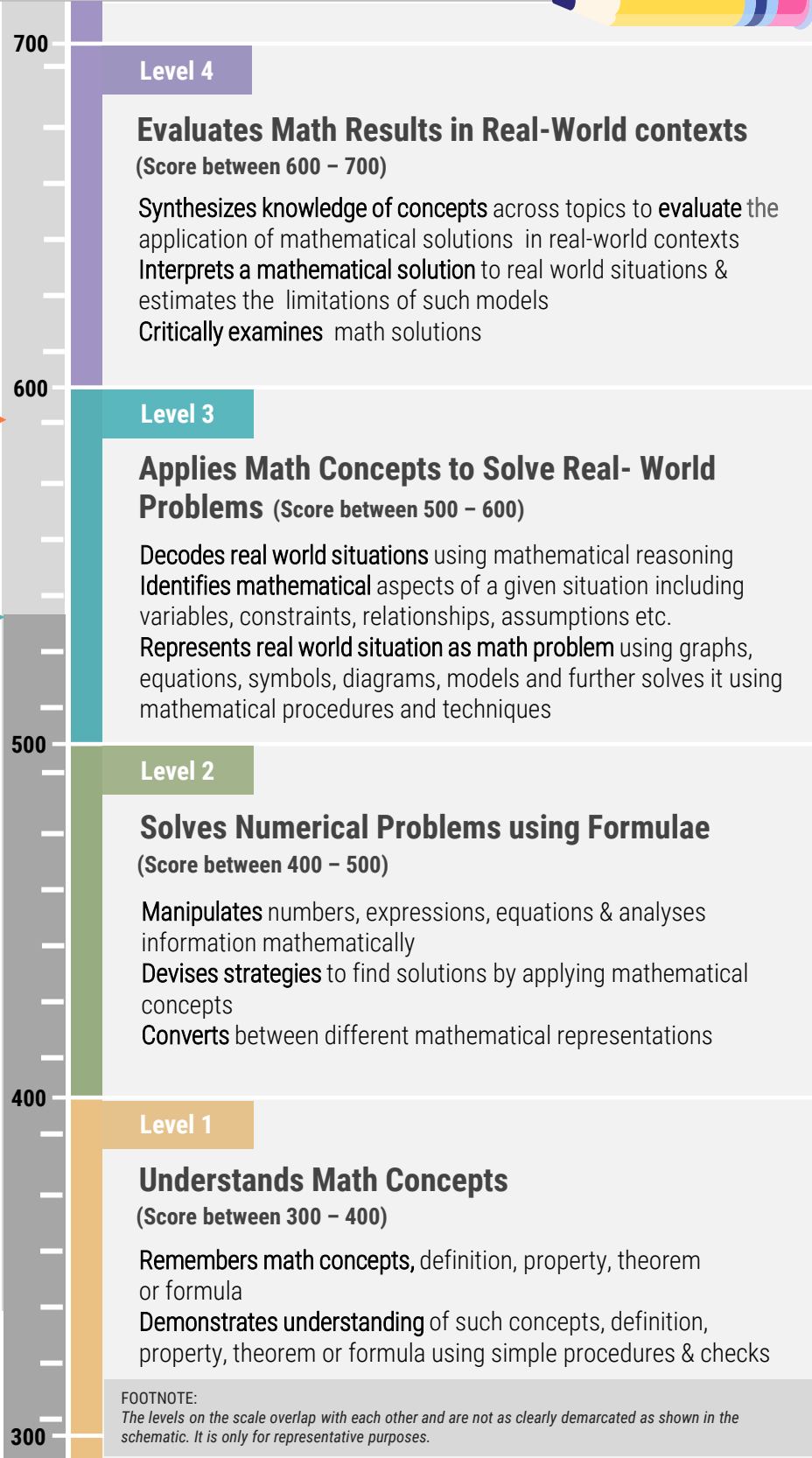
Current Score is 528 & You are at Level 3  
Student formulates real world situations as mathematical expressions and derives solutions



YOUR SCORES IN DETAIL ▼

595  
Vedantu  
Average

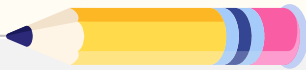
528  
Current  
Score



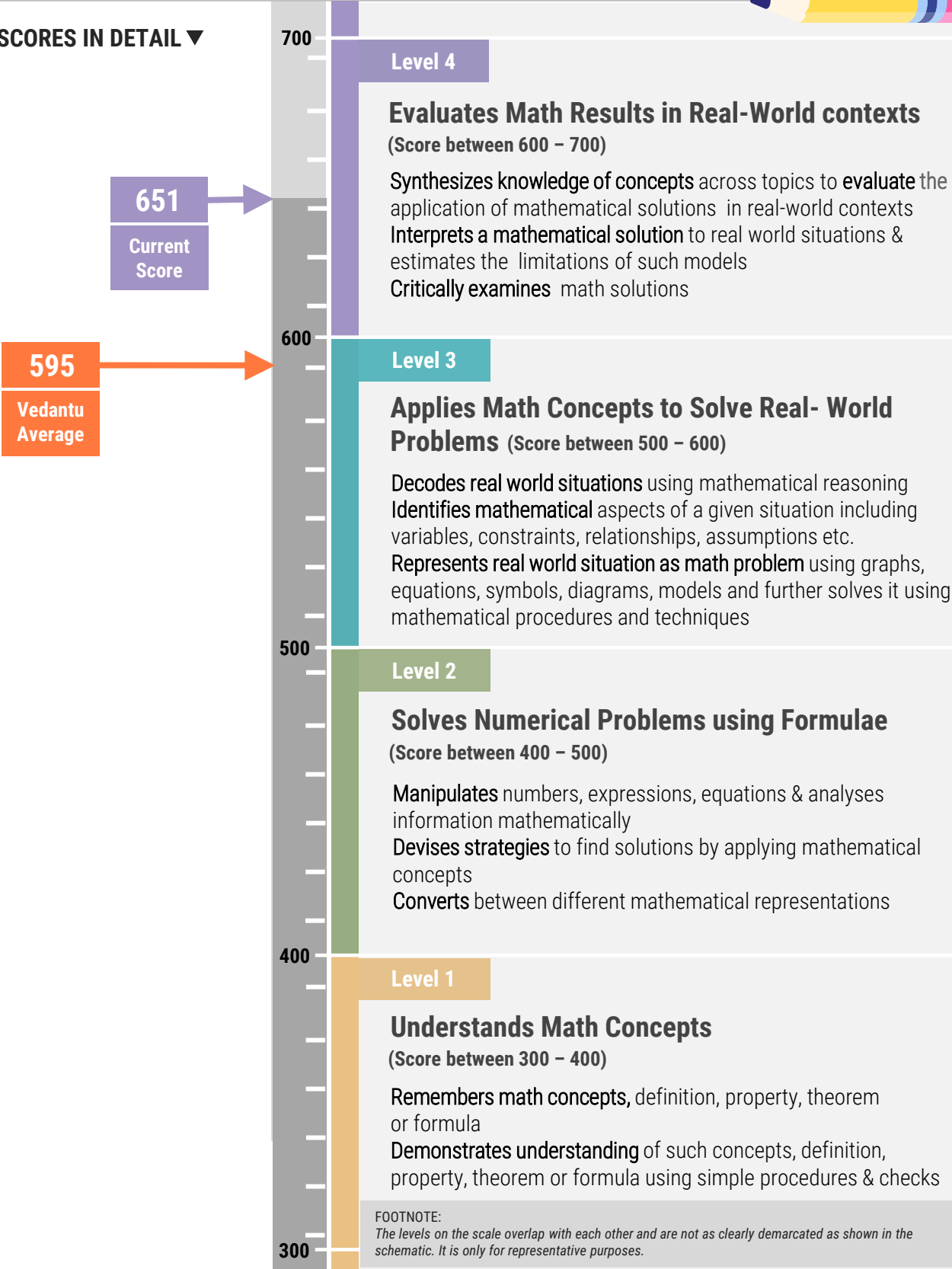
Subject : MATHEMATICS SECTION 1 : SCORES & ABILITY LEVEL IN DETAIL

Current Score is 651 & You are at Level 4

Student interprets and evaluates mathematical solutions in real-world context and performs advanced manipulations using mathematical knowledge



YOUR SCORES IN DETAIL ▼



## Subject : MATHEMATICS

## SECTION 2 : YOUR PERFORMANCE BY SUBJECT AREA

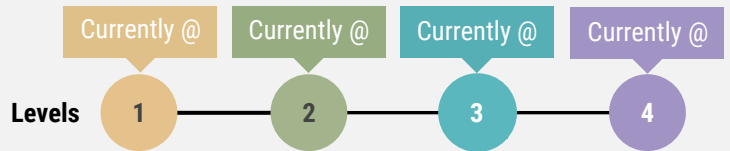
A subject area is a collection of topics that are tightly linked to each other conceptually. Learning level in one topic has a significant impact on learning levels in other topics within a subject area. Learning improvement requires equal focus on all topics in a subject area due to their linked nature.



### YOUR CURRENT & PREVIOUS STRANDWISE PERFORMANCE ▼

#### 01 NUMBERS & OPERATIONS

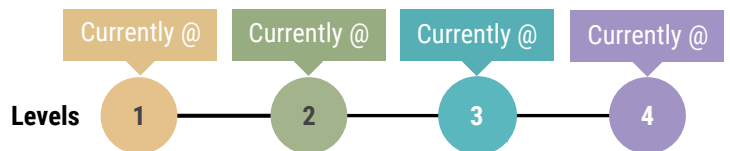
Rational Numbers  
Square & Cube numbers  
Square roots & Cube roots, Exponents  
Direct & Indirect proportionality,  
Number patterns and Divisibility rules



Practice solving problems with real world context (Word Problems)

#### 02 GEOMETRY

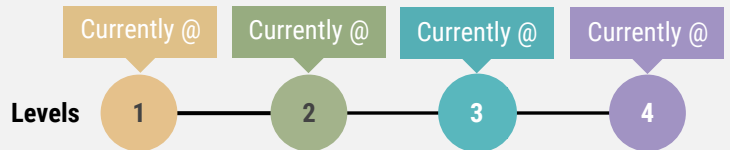
Polygons & Parallelograms  
Construction of quadrilaterals,  
Visualization of 3D shapes  
Reading and interpreting a map  
Euler's formula



Practice solving problems with real world context (Word Problems)

#### 03 ALGEBRA

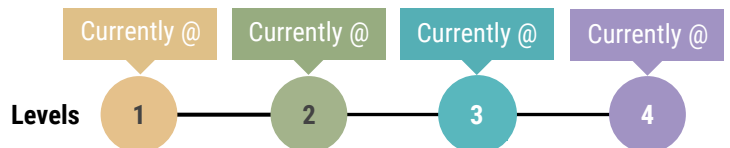
Linear equations  
Algebraic Expressions  
Operations on algebraic expressions  
Algebraic identities  
Factorization of algebraic expressions



Practice solving problems with real world context (Word Problems)

#### 04 STATISTICS & DATA

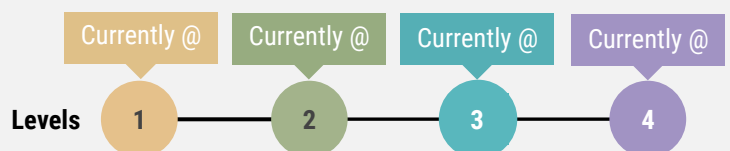
Data interpretation from graphs  
Frequency distribution & histograms  
Reading Pie-charts  
Plotting line graphs  
Applications of data visualization



Practice solving numerical procedures to minimize calculation errors

#### 05 MEASUREMENTS

Comparing Quantities  
Ratios and Percentages  
Mensuration



Practice solving numerical procedures to minimize calculation errors

Subject : MATHEMATICS

SECTION 3 : QUESTION WISE PERFORMANCE

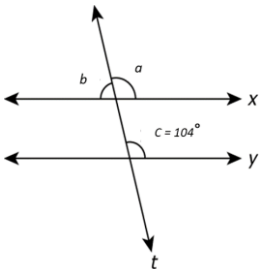
QUESTIONS

1. Which of the following numbers completes the number sentence?  
 $0.7 \times 0.05 = \text{ \_\_\_\_\_\_ } \times 100$

- A. 35
- B. 0.35
- C. 0.0035
- D. 0.00035

Your Answer	Correct Answer	% Answered Correctly	Ability
D	D	75 %	Understands

2. In the figure shown,  $x$  is parallel to  $y$ . In the figure,  $\angle a = \angle c = 104^\circ$  ?



The above statement is true because,

- A.  $\angle a$  and  $\angle c$  are alternate interior angles
- B.  $\angle a$  and  $\angle c$  are alternate exterior angles
- C.  $\angle a$  and  $\angle b$  are a linear pair
- D.  $\angle a$  and  $\angle c$  are corresponding angles

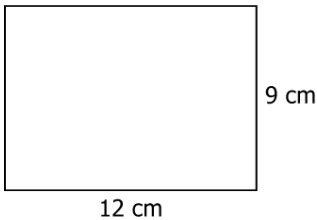
D	D	69 %	Understands
---	---	------	-------------

3. Which of the following statement(s) is true regarding the symmetry of a square?

- A. Squares have only rotational symmetry and no line symmetry
- B. Squares have only line symmetry and no rotational symmetry
- C. The order of rotational symmetry for all the squares is 4
- D. The angle of rotational symmetry of a square is 45

C	C	69 %	Understands
---	---	------	-------------

4. Observe the rectangle below and choose the expression that represents the perimeter of the rectangle.



- A.  $12 \times 9\text{cms}$
- B.  $12 + 9\text{cms}$
- C.  $2 \times (12+9\text{cms})$
- D.  $2 + (12 \times 9\text{cms})$

C	C	69 %	Understands
---	---	------	-------------

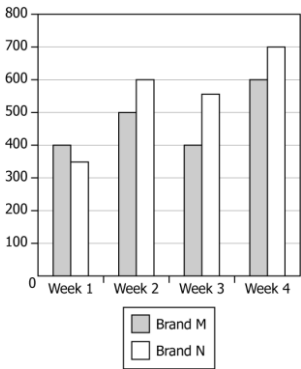


Subject : MATHEMATICS

SECTION 3 : QUESTION WISE PERFORMANCE

QUESTIONS

5. The bar graph shows the number of mobile phones of two different brands sold by a store, every week in the past four weeks. In which week, did the store sell exactly 500 Brand M and 600 Brand N phones?



- A. Week 1
- B. Week 2
- C. Week 3
- D. Week 4

Your Answer	Correct Answer	% Answered Correctly	Ability
A	B	75 %	Understands

6. Which of the following represent like terms?

- A.  $-4p$  and  $12q$
- B.  $8pq$  and  $-12qp$
- C.  $12pq^2$  and  $10qp^2$
- D.  $15p^2q$  and  $18p^2q^2$

B	B	69 %	Understands
---	---	------	-------------

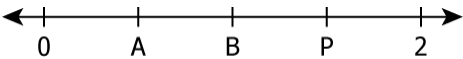
7. The table below contains the enrollment of students in a school. Choose the two classes that put together have 70 students.

Class	Enrollment
Class 1	30
Class 2	25
Class 3	40
Class 4	20

- A. Class 1 & 2
- B. Class 2 & 4
- C. Class 2 & 3
- D. Class 1 & 3

D	D	69 %	Understands
---	---	------	-------------

8. Consider the number line below with numbers/points marked at equal intervals.



- A.  $\frac{1}{2}$
- B.  $\frac{3}{2}$
- C.  $\frac{7}{2}$
- D. 1

B	B	69 %	Solves
---	---	------	--------

Subject : MATHEMATICS

SECTION 3 : QUESTION WISE PERFORMANCE

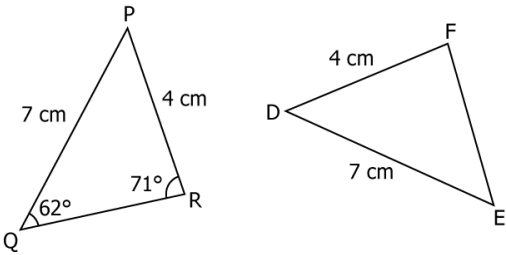
QUESTIONS

9. Subtract  $2x^2y + xy + 3$  from  $2xy + 7x^2y + 5xy^2 + 7$

- A.  $5x^2y + 5xy^2 + xy + 4$
- B.  $6x^2y - 5xy^2 - xy + 4$
- C.  $3xy + 9x^2y + 5xy^2 + 10$
- D.  $-5x^2y - 5xy^2 - xy - 4$

Your Answer	Correct Answer	% Answered Correctly	Ability
A	A	75 %	Solves

10. Consider the triangles shown. For  $\triangle PQR \cong \triangle DEF$ , which of the options is false?



- A.  $\angle QPR = \angle EDF = 133^\circ$
- B.  $\angle PQR = \angle DEF = 62^\circ$
- C.  $\angle PRQ = \angle DFE = 71^\circ$
- D.  $\angle QPR = \angle EDF = 47^\circ$

A	A	69 %	Solves
---	---	------	--------

11. If  $U = \frac{4}{13}$  and  $V = \frac{3}{7}$ , which of the following statements holds true?

- Statement 1:  $U > UV$   
Statement 2:  $V > UV$   
Statement 3:  $UV > 1$

- A. Only Statement 1
- B. Only Statement 2
- C. Statement 1 and 2
- D. Statements 1, 2 and 3

A	A	69 %	Solves
---	---	------	--------

12. The following data is arranged in ascending order: 5, 7,  $4p - 15$ ,  $4p + 20$ , 35, 50, 65

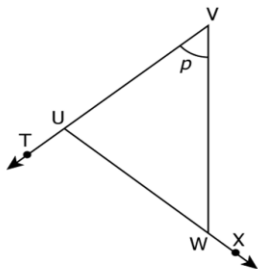
If the median of the data is 50, what is the value of  $p$ .

- A. 7.5
- B. 12.5
- C. 30
- D. 70

C	A	69 %	Solves
---	---	------	--------

QUESTIONS

13. In the triangle shown,  $m\angle VWX = 2(m\angle UVW)$  and  $m\angle TUW = 2(m\angle UWV)$ .



NOTE:  
Figure not drawn to scale.  
For representation purpose only.

Which of the following is true about the triangle UVW?

- A. It is a scalene triangle
- B. It is an isosceles triangle
- C. It is an equilateral triangle
- D. It is a right-angled triangle

Your Answer	Correct Answer	% Answered Correctly	Ability
C	C	75 %	Solves

14. Find the value of  $4ab + a^2b + bc + 1$  for  $a = 3, b = 2$  and  $c = 1$ .

- A. 44
- B. 21
- C. 26
- D. 45

D	D	75 %	Solves
---	---	------	--------

15. A group of students was asked to name their favorite sports. Their responses are as follows.

Badminton, Basketball, Hockey, Football, Basketball, Cricket, Badminton, Football, Cricket, Basketball, Football, Football, Badminton, Basketball, Cricket, Basketball, Football, Badminton, Cricket, Basketball

Which of these correctly represents the frequency distribution table for the above data?

Sports	Tally Marks	Frequency
Hockey		2
Cricket		4
Football		4
Basketball		6
Badminton		4

Sports	Tally Marks	Frequency
Hockey		1
Cricket		4
Football		4
Basketball		6
Badminton		5

Sports	Tally Marks	Frequency
Hockey		1
Cricket		4
Football		5
Basketball		6
Badminton		4

Sports	Tally Marks	Frequency
Hockey		1
Cricket		4
Football		4
Basketball		6
Badminton		4

C	C	75 %	Applies
---	---	------	---------

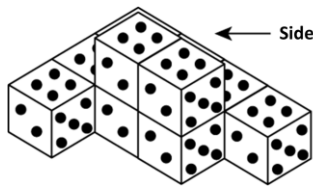
QUESTIONS

16. The large Coca-Cola bottle has a capacity of 2 Liters, whereas a small clay pot has a capacity of Liters. What is the percentage equivalent of the ratio of the volume of the bottle to that of the clay pot?

- A. 20%
- B. 40%
- C. 50%
- D. 70%

Your Answer	Correct Answer	% Answered Correctly	Ability
B ✓	B	75 %	Applies

17. Ten dice are arranged to get the solid shown below.



Which of the following shows the side view of the solid if the number opposite to 2 on the dice is 1?

- A.
- B.
- C.
- D.

D ✓	D	75 %	Applies
-----	---	------	---------

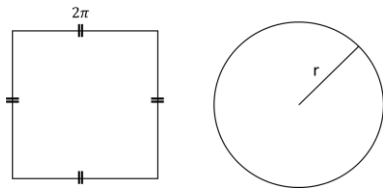
18. What is the value of the expression  $5m(2m - 3) + 4(2m - 1)$  at  $m = -2$ ?

- A. -50
- B. -90
- C. 50
- D. 90

C ✓	C	75 %	Applies
-----	---	------	---------

19. The given shapes have the same perimeter. What is the radius of the circle?

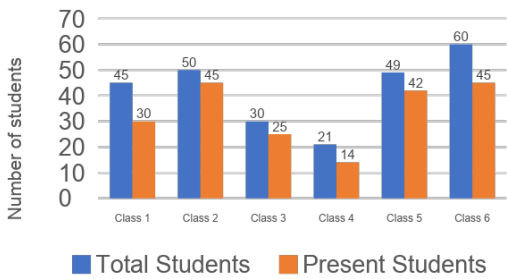
- A.  $2\pi$  units
- B. 2 units
- C. 4 units
- D.  $8\pi$  units



C ✓	C	75 %	Applies
-----	---	------	---------

QUESTIONS

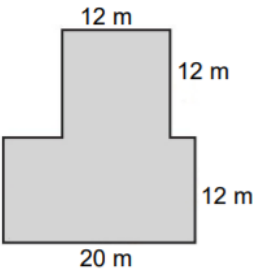
20. The bar graph shows the number of students present in different classes in Model school on Monday. How many students were absent in class 6 on Monday?



- A. 60
- B. 45
- C. 15
- D. 105

Your Answer	Correct Answer	% Answered Correctly	Ability
B ✓	B	75 %	Applies

21. What is the area of the given shape?



- A. 384 square meters
- B. 144 square meters
- C. 240 square meters
- D. 56 square meters

D ✓	D	75 %	Applies
-----	---	------	---------

22. A mountaineer is descending from the Kanchenjunga peak situated at 8,586 m above sea level at the rate of 380 meters /day. At the same time, a submersible vessel that had reached a depth of 10,908 m below sea level, exploring the Pacific Ocean started ascending at the rate of 1287 m/day. What is the difference in position between the mountaineer and vessel after 3 days?

- A. 22,215 m
- B. 2,679 m
- C. 2,322 m
- D. 14,493 m

D ✓	D	75 %	Applies
-----	---	------	---------

QUESTIONS

23. The table below contains the prices of vegetables in two different months. What is the average change in the price of the given vegetables between January and July?

Vegetable	Price in January (per kg)	Price in July (per kg)
Carrot	₹ 30	₹ 50
Onion	₹ 25	₹ 25
Tomato	₹ 25	₹ 40
Cauliflower	₹ 30	₹ 55
Cucumber	₹ 60	₹ 35
Pumpkin	₹ 10	₹ 15
Potato	₹ 40	₹ 35

- A. ₹ 10
- B. ₹ 13
- C. ₹ 5
- D. ₹ 6

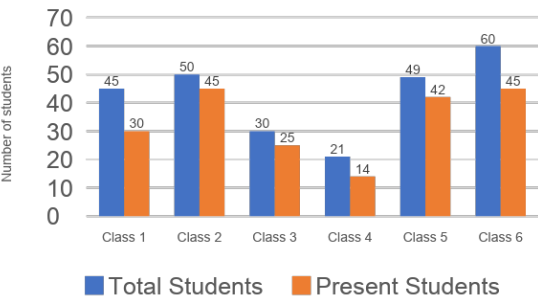
Your Answer	Correct Answer	% Answered Correctly	Ability
B	B	75 %	Applies

24. The interest rate for a financial instrument is represented by the equation,  $12(x - 7) = 3y$  where  $x$  represents the interest rate and  $y$  represents the year. What is the interest rate for year 3?

- A. 3..32
- B. -1.43
- C. 7.75
- D. -0.75

B	B	69 %	Applies
---	---	------	---------

25. The bar graph shows the number of students present in classes 1 to 6 in Model school on Monday. What is the average number of students present in class 1-6 on Monday?



- A. 30
- B. 33.5
- C. 35
- D. 31.5

D	D	75 %	Applies
---	---	------	---------

Subject : MATHEMATICS

SECTION 3 : QUESTION WISE PERFORMANCE

QUESTIONS

26. A scientist was determining the age of a tree using annular rings (concentric circles) that appear in the cross section of a tree trunk. For her calculation she needs to find the area between 2 rings, as shown in the figure. What would be the area she calculated? (Use 3.14 for  $\pi$ )

- A. 153.86  $\text{cm}^2$
- B. 178.14  $\text{cm}^2$
- C. 326.30  $\text{cm}^2$
- D. 549.50  $\text{cm}^2$

Your Answer	Correct Answer	% Answered Correctly	Ability
B	B	75 %	Applies

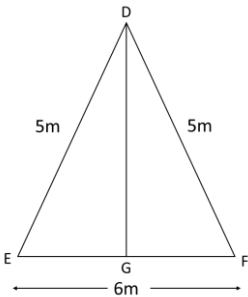
27. Anita is going on a trek and she needs trekking boots. The selling price of a pair of trekking boots is Rs. 6000. The store offers a discount of 15% on the pair of boots. If Anita has a coupon that offers an additional discount of Rs. 700 after the 15% discount, how much does she pay to buy the pair of boots?

- A. Rs. 4100
- B. Rs. 4250
- C. Rs. 4400
- D. Rs. 5100

B	B	69 %	Applies
---	---	------	---------

28. During her trek, Sowmya is pitching a big tent in an open ground. She has a tent with the dimensions shown in the figure. She uses the pole DG to support the tent. What should be the length of DG, if it must be erected at right angles to the ground exactly at the centre of the base EF?

- A. 3 cms
- B. 4 cms
- C. 5 cms
- D. 6 cms



D	D	75 %	Applies
---	---	------	---------

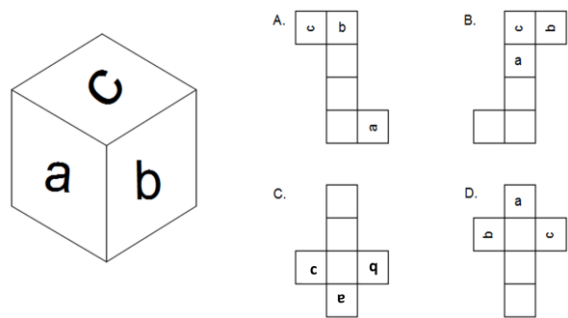
29. Gaurav works in a factory. He earns Rs. 2,40,000 as fixed salary per year and Rs. 200 for each extra hour he works after his regular working hours. Which of the following expressions can Gaurav use to calculate his salary for the month he works for  $x$  extra hours?

- A.  $(2,40,000 - 200x)/12$
- B.  $2,40,000 + x$
- C.  $(2,40,000/12) + 200x$
- D.  $2,40,000 + 200x$

D	D	75 %	Applies
---	---	------	---------

QUESTIONS

30. Which of the following options is like the folded cube?



Your Answer	Correct Answer	% Answered Correctly	Ability
B ✓	B	75 %	Applies

31. Observe the addition problem shown. What are the values of P & Q?

$$\begin{array}{r} 3PQ \\ + PQ2 \\ \hline Q09 \end{array}$$

- A. P = 4 and Q = 7
- B. P = 3 and Q = 7
- C. P = 7 and Q = 4
- D. P = 7 and Q = 3

B ✓	B	69 %	Applies
-----	---	------	---------

32. Rashmi has 'x' pencils. Suman has 4 more than 7 times the pencils Rashmi has. Rajesh has 3 more than 2 times pencils Suman has. Which option represents the number of pencils Rajesh has?

- A. 14x + 3
- B. 2x + 3
- C. 7x + 4
- D. 14x + 11

D ✓	D	75 %	Applies
-----	---	------	---------

33. The width of the garden is 20 m and the length is 40 m. The cost to install fencing around the garden is Rs. 28.5 per meter. What is the total cost to install fencing around the garden?

- A. Rs. 1,710
- B. Rs. 3,420
- C. Rs. 34,200
- D. Rs. 22,800

B ✓	B	69 %	Applies
-----	---	------	---------



Subject : MATHEMATICS

SECTION 3 : QUESTION WISE PERFORMANCE

QUESTIONS

34. The number of boys and girls in a class is in the ratio 4:7. The number of girls is 9 more than the number of boys. What is the total class strength?

- A. 50
- B. 47
- C. 33
- D. 55

Your Answer	Correct Answer	% Answered Correctly	Ability
B	B	75 %	Applies

35. A store owner is comparing this month and last month sales figures and needs to know the percentage increase or decrease in the sales month compared to the last. The owner finds the store sold 200 cycles last month and 270 cycles this month. He also sees that sales of skateboards went up from 150 to 180 during the same period. Which of the following statements are true based on this information?

- A. The sales of cycles increased by 70%.
- B. The sales of cycles increased by 20%.
- C. The sales of skateboards increased by 20%.
- D. The sales of skateboards increased by 30%.

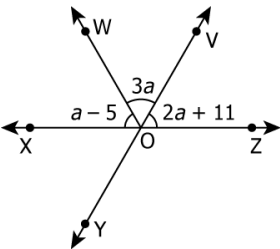
B	B	69 %	Evaluates
---	---	------	-----------

36. A farmer wants to apply pesticide on his square shaped field of side length 130 m. The farmer knows that a can of pesticide can cover an area of 676 square meters. What is the fewest number of cans of pesticide the farmer needs to cover the whole field?

- A. 3
- B. 6
- C. 20
- D. 25

D	D	75 %	Evaluates
---	---	------	-----------

37. Consider the figure shown. What is the measure of angle YOZ?



- A. 69°
- B. 29°
- C. 111°
- D. 121°

B	B	69 %	Evaluates
---	---	------	-----------

QUESTIONS

38. Simran must paint a rectangular wall of length 6 m and breadth 4.5 m. There is a circular vent of radius 35 cm on the wall. What is the area of the wall that is to be painted, excluding the vent? (Use 22/7 for  $\pi$ )

- A. 23.15 m<sup>2</sup>
- B. 0.385 m<sup>2</sup>
- C. 26.615 m<sup>2</sup>
- D. 27 m<sup>2</sup>

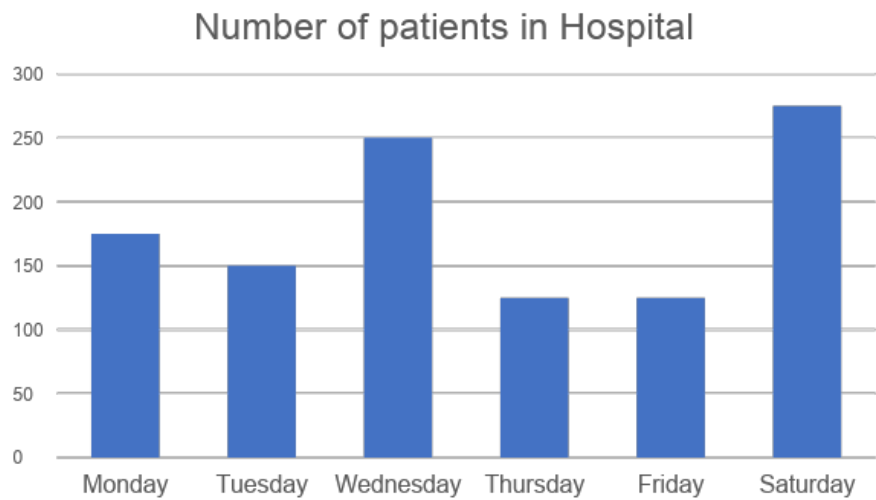
Your Answer	Correct Answer	% Answered Correctly	Ability
B	B	75 %	Evaluates

39. In the morning Rahul walks 2 kms towards the North then takes right and walks 1 km to reach the bookstore to buy some stationery. From the bookstore, he goes to the school which is 3 km towards the West. In the evening, which direction would Rahul walk to reach his house directly?

- A. North West
- B. South West
- C. South East
- D. North East

B	B	69 %	Evaluates
---	---	------	-----------

40. Below bar graph gives number of patients visiting a hospital in a week. What should be the percentage increase of patient visits on Friday if the total number of patient visits during the week must increase by 20%?



- A. About 100%
- B. About 200%
- C. About 50%
- D. About 150%

B	B	69 %	Evaluates
---	---	------	-----------

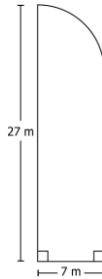
Subject : MATHEMATICS

SECTION 3 : QUESTION WISE PERFORMANCE

QUESTIONS

41. Mr Goel owns a plot which is in the form of a rectangle attached to a circular quadrant with the measurement as shown in the figure below. He wants to construct a wall around the boundary to avoid trespassing. If the cost of constructing a boundary wall is Rs. 400 per metre, what is the cost of constructing the boundary wall around the plot? (use  $\pi = \frac{22}{7}$ )

- A. Rs. 39,200
- B. Rs. 26,000
- C. Rs. 27,200
- D. Rs. 28,800



Your Answer	Correct Answer	% Answered Correctly	Ability
B <input checked="" type="checkbox"/>	B	75 %	Evaluates

42. Choose the statement that describes the equation below:  $\frac{4x}{5} = \frac{2x}{5} + 5$

- A. Four-fifths of a number  $x$  is five times two-fifths of  $x$
- B. Two-fifths of the number  $x$  is equal to five
- C. Four-fifths of the number  $x$  is equal to five
- D. Four-fifths of a number  $x$  is equal to five less than two-fifths of  $x$

B <input checked="" type="checkbox"/>	B	69 %	Evaluates
---------------------------------------	---	------	-----------

43. Karthik sold a sofa for Rs. 8,400 at a loss of 4%. What is his selling price if he had to make a profit of 2%?

- A. Rs. 8,400
- B. Rs. 8,925
- C. Rs. 7,855
- D. Rs. 8,750

B <input checked="" type="checkbox"/>	B	69 %	Evaluates
---------------------------------------	---	------	-----------

44. Discount percentage of a product A is shown by the equation,  $3(4x + 7) = 27$ . If product B has a discount percentage expressed as  $18x - 9$ . What is the discount percentage of product B?

- A.  $\frac{1}{2}$
- B.  $\frac{5}{3}$
- C.  $\frac{3}{27}$
- D.  $\frac{1}{27}$

B <input checked="" type="checkbox"/>	B	69 %	Evaluates
---------------------------------------	---	------	-----------



# Thank you

## More About the Report:

The report uses Item Response theory to provide scaled scores of the students similar to many international assessments including PISA, TIMMS, SAT, ACT, GRE and GMAT. The scaled score allows for tracking the student progression periodically, to identify areas of improvement and provide remedial help proactively.

- VISIT : [www.vedantu.com](https://www.vedantu.com)