A field with equal sides of 40m is full of grass. One cow is tied to each corner of the field by a rope of 14m. How much grass will not be eaten by those 4 cows?

- (●) 984 sq.m
- ( ) 1056 sq.m
- ( ) 1224 sq.m
- ( ) 856 sq.m

Clear selection

A school has four sections A, B, C, D of Class IX students.Read the table and answer

How many students are there in Class IX in the school?

The results of half yearly and annual examinations are shown in the table given below.

Result	No. of Students			
	Section A	Section B	Section C	Section D
Students failed in both Exams	28	23	17	27
Students failed in half-yearly but passed in Annual Exams	14	12	8	13
Students passed in half-yearly but failed in Annual Exams	6	17	9	15
Students passed in both Exams	64	55	46	76

- ( ) 336
- ( ) 189
- ( ) 335
- (●) 430

Clear selection

What will be total cost of polishing curved surface of a wooden cylinder at rate of Rs. 20 per sq.m, if it has 40 cm diameter and 7m height?

- ○ Rs. 480
- ○ Rs. 384
- ○ Rs. 352
- ◉ Rs. 176

Clear selection

A school has four sections A, B, C, D of Class IX students.Read the table and answer

Which section has the maximum pass percentage in at least one of the two examinations?

The results of half yearly and annual examinations are shown in the table given below.

Result	No. of Students			
	Section A	Section B	Section C	Section D
Students failed in both Exams	28	23	17	27
Students failed in half-yearly but passed in Annual Exams	14	12	8	13
Students passed in half-yearly but failed in Annual Exams	6	17	9	15
Students passed in both Exams	64	55	46	76

- ○ A Section
- ○ B Section
- ○ C Section
- ◉ D Section

Clear selection

A rectangular park 60 m long and 40 m wide has two concrete crossroads running in the middle of the park and rest of the park has been used as a lawn. If the area of the lawn is 2109 sq. m, then what is the width of the road?

- ○ 2.91 m
- ◉ 3 m
- ○ 5.82 m
- ○ None of these

Clear selection

Find the altitude to side AC of triangle with side AB = 20 cm, AC = 20 cm, BC = 30 cm.

- ○ $10\sqrt{7}$
- ○ $8\sqrt{7}$
- ◉ $7.5\sqrt{7}$
- ○ $15\sqrt{7}$

Clear selection

Is triangle ABC an equilateral triangle?

Statement 1: The length of AB is equal to the length of AC.
Statement 2: The length of BC is equal to twice the length of AB.

- ○ Statement 1 alone is sufficient
- ○ Statement 2 alone is sufficient
- ○ Both statement 1 and statement 2 together are sufficient
- ◉ Both statement 1 and statement 2 even together are not sufficient

Circle with center O and radius 25 cms has a chord AB of length of 14 cms in it. Find the area of triangle AOB

- ○ 144 cm2
- ○ 121 cm2
- ○ 156 cm2
- ◉ 168 cm2

Clear selection

A wire in the form of a circle of radius 3.5 m is bent in the form of a rectangle, whose length and breadth are in the ratio of 6 : 5. What is the area of the rectangle?

- ○ 60 sq.cm
- ◉ 30 sq.cm
- ○ 45 sq.cm
- ○ 15 sq.cm

Clear selection

A tree breaks and falls to the ground such that its upper part is still partially attached to its stem. At what height did it break, if the original height of the tree was 24 cm and it makes an angle of 30° with the ground?

- ○ 12 cm
- ◉ 8 cm
- ○ 9.5 cm
- ○ 7.5 cm

Clear selection

What is the value of 'x'

Statement 1 : $x2 + x - 6 = 0$
Statement 2 : $x \geq 0$

- ◉ Statement 1 alone is sufficient
- ○ Statement 2 alone is sufficient
- ○ Both statement 1 and statement 2 together are sufficient
- ○ Both statement 1 and statement 2 even together are not sufficient

Clear selection

A school has four sections A, B, C, D of Class IX students.Read the table and answer

If the number of students passing an examination be considered a criteria for comparision of difficulty level of two examinations, which of the following statements is true in this context?

The results of half yearly and annual examinations are shown in the table given below.

Result	No. of Students			
	Section A	Section B	Section C	Section D
Students failed in both Exams	28	23	17	27
Students failed in half-yearly but passed in Annual Exams	14	12	8	13
Students passed in half-yearly but failed in Annual Exams	6	17	9	15
Students passed in both Exams	64	55	46	76

- ○ Half yearly examinations were more difficult
- ○ Annual examinations were more difficult.
- ◉ Both the examinations had almost the same difficulty level.
- ○ The two examinations cannot be compared for difficulty level.

Clear selection

What is the sum of the ages of John and Peter?

Statement 1: John is 5 years older than Peter.
Statement 2: The average of their ages is 25.

- ○ Statement 1 alone is sufficient
- ○ Statement 2 alone is sufficient
- ◉ Both statement 1 and statement 2 together are sufficient
- ○ Both statement 1 and statement 2 even together are not sufficient

Clear selection

If sec x + cos x = 2, then the value of sec16 x + cos16 x will be-

- ◉ 2
- ○ 0
- ○ 1
- ○ √3

Clear selection

A school has four sections A, B, C, D of Class IX students.Read the table and answer

Which section has the maximum success rate in annual examination?

The results of half yearly and annual examinations are shown in the table given below.

Result	No. of Students			
	Section A	Section B	Section C	Section D
Students failed in both Exams	28	23	17	27
Students failed in half-yearly but passed in Annual Exams	14	12	8	13
Students passed in half-yearly but failed in Annual Exams	6	17	9	15
Students passed in both Exams	64	55	46	76

- (●) A Section
- ( ) B Section
- ( ) C Section
- ( ) D Section

Clear selection

Area of a Rhombus of perimeter 56 cms is 100 sq cms. Find the sum of the lengths of its diagonals.

- ○ 33.40
- ◉ 34.40
- ○ 31.20
- ○ 32.30

Clear selection

Due to sun, a 6ft man casts a shadow of 4ft, whereas a pole next to the man casts a shadow of 36ft. What is the height of the pole?

- ○ 63 ft
- ○ 72 ft
- ◉ 54 ft
- ○ 48 ft

Clear selection

ΔPQR is right angled at Q. If cos P = 3/5, then what is the value of cos R?

- ○ 3/4
- ○ 5/3
- ◉ 4/5
- ○ 4/3

Clear selection

There is a tower of 10m between two parallel roads. The angles of depression of the roads from the top of the tower are 30° and 45°. How far are the roads from each other?

- ◉ 27.32 m
- ○ 29.56 m
- ○ 20.36m
- ○ 10.84 m

Clear selection

A company conducted a survey of 500 customers to determine their satisfaction with the company's products. The results showed that 80% of customers were satisfied with the products. Of the satisfied customers, 60% were repeat customers. How many customers were repeat customers and satisfied with the products?

- ○ 400
- ○ 320
- ◉ 240
- ○ 300

Clear selection

What is the sum of the angles of a triangle?

Statement 1: One of the angles of the triangle is 60 degrees.
Statement 2: The triangle is an equilateral triangle.

- ○ Statement 1 alone is sufficient
- ○ Statement 2 alone is sufficient
- ◉ Both statement 1 and statement 2 together are sufficient
- ○ Both statement 1 and statement 2 even together are not sufficient

Clear selection

What is the total number of students in a class?

Statement 1: There are 20 boys in the class.
Statement 2: The ratio of girls to boys in the class is 2:5.

- ○ Statement 1 alone is sufficient
- ○ Statement 2 alone is sufficient
- ◉ Both statement 1 and statement 2 together are sufficient
- ○ Both statement 1 and statement 2 even together are not sufficient

Clear selection

What is the ratio of longest diagonal to the shortest diagonal in a regular octagon?

- ○ √3 : 1
- ○ 2 : 1
- ○ 2 : √3
- ◉ √2 : 1

Clear selection

Find the area of the triangle formed by the vertices (4, 5), (10, 12) and (-3, 2)

- ○ 13
- ○ 14.5
- ○ 14
- ◉ 15.5

Clear selection

If the radius of a cylinder is doubled and the height remains same, the volume will be

- ○ Doubled
- ○ Halved
- ○ Same
- ◉ Four times

Clear selection

Shadow of a man is 1/3 times the height of the man. What will be the sun's angle of elevation?

- ○ 135°
- ○ 45°
- ○ 30°
- ◉ 60°

Clear selection

Tree top's angle of elevation is 30° from a point on ground, 300m away the tree. When the tree grew up its angle of elevation became 60° from the same point. How much did the tree grow?

- ○ 173.2 m
- ◉ 346.4 m
- ○ 86.60 m
- ○ 115.47 m

Clear selection

If the points A(2, 3), B(5, K) and C(6, 7) are collinear, then k = ?

- ○ 3
- ○ 5
- ◉ 6
- ○ 8

Clear selection

The radius of a wheel is 22.4 cm. What is the distance covered by the wheel in making 500 revolutions?

- ○ 252 m
- ◉ 704 m
- ○ 352 m
- ○ 808 m

Clear selection