



Mensuration Questions for SNAP

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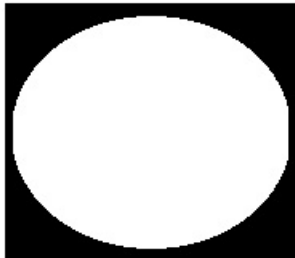
Questions

Instructions

For the following questions answer them individually

Question 1

What is the area of the shaded portion, if the side of the square measure 21 ms.?



21 cms

- A 86.5 sq. cms.
- B 102 sq. cms.
- C 94.5 sq. cms.
- D 81.5 sq. cms.

Answer: C

Explanation:

Area of shaded portion will be the area of square minus the area of the circle.

i.e

$$21^2 - (\pi * 21^2)/4$$

$$=94.5$$

Question 2

The area of the square of side 8 cm is equal to a rectangle. Which of the following statements/is/are definitely true about the rectangle (Sides of the rectangle are integers)?

- A The length of the rectangle is 16 times its breadth
- B The length of the rectangle is 32 times its breadth
- C The breadth of the rectangle is $\frac{1}{6}$ of its length
- D The breadth of the rectangle is $\frac{1}{9}$ of its length
- E None of these

Answer: A

Explanation:

Area of rectangle = 8^2 .

Area of rectangle = 64 cm^2 .

Length \times Breadth = 64.

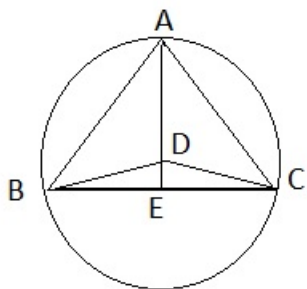
Combination of Length and breadth is (32,2).

Hence, length of rectangle is 16 times the breadth of rectangle.

Therefore, Option A is correct.

Question 3

In the following figure, ABC is an equilateral triangle which is inscribed inside a circle and whose radius is r . Which of the following is the area of the triangle?



A $(r - DE)^{\frac{1}{2}}(r + DE)^2$

B $(r - DE)^2(r + DE)^2$

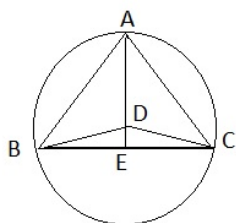
C $(r - DE)^{\frac{1}{2}}(r + DE)^3$

D $(r + DE)^2(r - DE)^3$

E None of these

Answer: C

Explanation:



$$BD = DC = r$$

According to Pythagoras Theorem, $BD^2 = r^2 = DE^2 + BE^2$

$$BE^2 = r^2 - DE^2$$

$$BE = \sqrt{r^2 - DE^2}$$

$$r^2 - DE^2 = (r + DE) \times (r - DE).$$

$$BC = 2 \times BE =$$

$$AE = (r + DE)$$

$$\text{Area of } \triangle ABC = \frac{1}{2} \times BC \times AE = \frac{1}{2} \times 2 \times (r^2 - DE^2) \times (r + DE)$$

$$\frac{1}{2} \times 2 \times (r^2 - DE^2) \times (r + DE) = (r - DE) \times (r + DE) \times (r + DE) = (r - DE)^1 (r + DE)^2$$

Hence Option C is the correct answer.

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Question 4

The radius of a circle is 20% more than the height of a right angled triangle. The base of triangle is 36 cm. If the area of triangle and circle be equal, what will be the area of circle ?

- A 72 cm^2
- B 144 cm^2
- C 216 cm^2
- D 128 cm^2
- E Cannot be determined

Answer: A

Explanation:

Let the height of the triangle be 'h'. Area of the triangle = $(1/2) \times 36 \times h = 18h$

Radius of the circle = $1.2h$

Area of the circle = $\pi \times 1.44h^2$

Since the areas are equal, $18h = (22/7) \times 1.44 \times h^2$

$\Rightarrow h = 18 \times 7 / 1.44 \times 22 = 3.97727273$

So, the area of the circle = Area of the triangle = $18 \times 3.97727273 = 72 \text{ cm}^2$ approx.

Question 5

The area of a rectangular field is 460 square metres. If the length is 15 per cent more than the breadth, what is breadth of the rectangular field ?

- A 15 metres
- B 26 metres
- C 34.5 metres
- D Cannot be determined
- E None of these

Answer: E

Explanation:

Let the length and breadth of rectangle be L and B respectively.

It is given that $L = 1.15B$

Area is given as 460 sqmtr

$$L \times B = 460$$

$$\text{So } B = 20 \text{ m}$$

Question 6

What will be the cost of gardening 1 metre broad boundary around a rectangular plot having perimeter of 340 meters at the rate of Rs 10 per square metre?

- A** Rs 3,400/-
- B** Rs 1,700/-
- C** Rs 3,440/-
- D** Cannot be determined
- E** None of these

Answer: C

Explanation:

here the cost of boundary making = 10 per sqmt

$$\text{Total area to be boundaried} = 2L + 2B + (1 \times 4) \dots (1)$$

It is given that perimeter of rectangle is 340 m

$$\text{So } 2(L + B) = 340 \dots (2)$$

From equation 1 and 2

$$\text{Total area to be boundaried} = 344 \text{ sq mtr}$$

$$\text{Cost of boundaring } 344 \text{ sq mtr area} = 344 \times 10 = \text{Rs } 3440$$

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Question 7

The area of a square is thrice the area of a rectangle. If the area of the square is 225 sq cm and the length of the rectangle is 15 cm, what is the difference between the breadth of the rectangle and the side of the square?

- A** 8 cm
- B** 10 cm
- C** 12 cm
- D** 6 cm
- E** None of these

Answer: B

Explanation:

$$\text{area of square} = (\text{side})^2 = 225$$

$$\text{Side of square} = 15 \text{ cm}$$

It is given that area of square is thrice area of rectangle, so

$$225 = 3 \times L \times B \text{ where } L \text{ and } B \text{ are length and breadth of rectangle.}$$

Given that length of rectangle is 15 cm so $B = 5 \text{ cm}$

$$\text{Side of square} - \text{Breadth of rectangle} = 15 - 5 = 10 \text{ cm}$$

Question 8

The diameter of a circle is 7.7 cm What is the circumference of the circle ?

- A 26.4 cm
- B 24.2 cm
- C 28.4 cm
- D 22.2 cm
- E None of these

Answer: B

Explanation:

diameter = 7.7 cm

Radius = Diameter/2 = 7.7/2

Circumference = $2 \pi R = 2 \times 3.14 \times 3.85 = 24.178 \text{ cm} \sim 24.2 \text{ cm}$

Question 9

A rectangular field has its length and breadth in the ratio of 6:5 respectively A man riding a bicycle completes one lap of this field along its perimeter at the speed of 19.8 km/h in 2 min What is the area of the field ?

- A 19200 sq m
- B 27000 sq m
- C 32500 sq m
- D Cannot be determined
- E None of these

Answer: B

Explanation:

here the speed of cycle is given = $19.8 \text{ km/hr} = 19.8 \times \frac{5}{18} \text{ m/s} = 5.5 \text{ m/s}$

Time = 2 min = 120 sec

Distance = speed \times time

Distance = $5.5 \times 120 = 660 \text{ m}$

As length : breadth = 6:5

Length = 6y

Breadth = 5y

Perimeter = 660 m

$22y = 660$

$y = 30 \text{ m}$

So length = 180 m

Breadth = 150 m

Area = $180 \times 150 = 27000 \text{ sq mtr}$

Question 10

What would be the area of a circle whose circumference is 35.2 cm?

- A 67.22 sq cm
- B 75.54 sq cm
- C 98.56 sq cm
- D 86.75 sq cm
- E None of these

Answer: C

Explanation:

circumference of circle = $2\pi R = 35.2$

R is the radius of circle

$R = 5.6$ cm

Area of circle = $\pi(R)^2 = 3.14 \times (5.6)^2 = 98.56$ sq cm

Question 11

The diameter of a circle is 7.7 cm What is the circumference of the circle ?

- A 26.4 cm
- B 24.2 cm
- C 28.4 cm
- D 22.2 cm
- E None of these

Answer: B

Explanation:

diameter = 7.7 cm

Radius = Diameter/2 = $7.7/2$

Circumference = $2\pi R = 2 \times 3.14 \times 3.85 = 24.178$ cm ~ 24.2 cm

Question 12

The area of a square is thrice the area of a rectangle If the area of the square is 225 sq cm and the length of the rectangle is 15 cm what is the difference between the breadth of the rectangle and the side of the square ?

- A 8 cm
- B 10 cm
- C 12 cm
- D 6 cm
- E None of these

Answer: B

Explanation:

area of square = $(side)^2 = 225$

Side of square = 15 cm

It is given that area of square is thrice area of rectangle ,so

$225 = 3 \times L \times B$ where L and B are length and breadth of rectangle.

Given that length of rectangle is 15 cm so $B = 5$ cm

Side of square - Breadth of rectangle = $15 - 5 = 10$ cm

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Question 13

What will be the cost of gardening 1 metre broad boundary around a rectangular plot having perimeter of 340 meters at the rate of Rs 10 per square metre?

- A Rs 3,400/-
- B Rs 1,700/-
- C Rs 3,440/-
- D Cannot be determined
- E None of these

Answer: C

Explanation:

here the cost of boundary making = 10 per sqmt

Total area to be boundaried = $2L + 2B + (1 \times 4) \dots (1)$

It is given that perimeter of rectangle is 340 m

So $2(L + B) = 340 \dots (2)$

From equation 1 and 2

Total area to be boundaried = 344 sq mtr

Cost of boundaring 344 sq mtr area = $344 \times 10 = \text{Rs } 3440$

Question 14

The area of a rectangular field is 460 square metres. If the length is 15 per cent more than the breadth, what is breadth of the rectangular field ?

- A 15 metres
- B 26 metres
- C 34.5 metres
- D Cannot be determined
- E None of these

Answer: E

Explanation:

let the length and breadth of rectangle be L and B respectively.

It is given that $L = 1.15B$

Area is given as 460 sqmtr

L x B = 460

So B = 20 m

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