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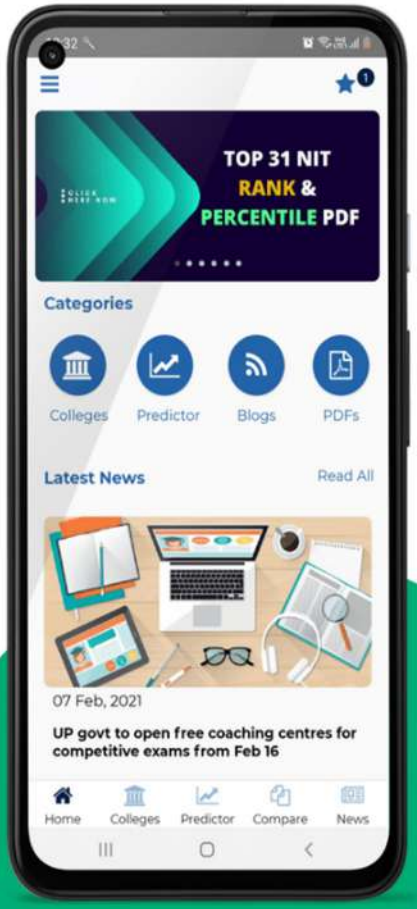

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Geometry – Area and Measurements

Question

Which of the following is the area of a circle with radius r?

- πr^2
- $2\pi r$
- πr
- $\frac{1}{2}\pi r^2$

Solution

The area of a circle is given by $A = \pi r^2$.

Geometry – Area of a Triangle

Question

Which of the following is the area of a triangle with base b and height h?

- $\frac{1}{2}bh$
- bh
- $2bh$
- $\frac{1}{3}bh$

Solution

The area of a triangle is $A = \frac{1}{2}bh$.

Geometry – Area of a Rectangle

Question

Which of the following is the area of a rectangle with length l and width w?

- lw
- $2lw$
- $\frac{1}{2}lw$
- $l + w$

Solution

The area of a rectangle is $A = lw$.

Geometry – Area of a Trapezoid

Question

Which of the following is the area of a trapezoid with bases b_1 and b_2 and height h?

- $\frac{1}{2}(b_1 + b_2)h$
- $(b_1 + b_2)h$
- $\frac{1}{2}b_1 b_2 h$
- $\frac{1}{3}(b_1 + b_2)h$

Solution

The area of a trapezoid is $A = \frac{1}{2}(b_1 + b_2)h$.

Geometry – Area of a Parallelogram

Question

Which of the following is the area of a parallelogram with base b and height h?

- bh
- $2bh$
- $\frac{1}{2}bh$
- $b + h$

Solution

The area of a parallelogram is $A = bh$.

Geometry – Area of a Rhombus

Question

Which of the following is the area of a rhombus with diagonals d_1 and d_2?

- $\frac{1}{2}d_1 d_2$
- $d_1 d_2$
- $2d_1 d_2$
- $\frac{1}{3}d_1 d_2$

Solution

The area of a rhombus is $A = \frac{1}{2}d_1 d_2$.

Geometry – Area of a Regular Polygon

Question

Which of the following is the area of a regular polygon with perimeter P and apothem a?

- $\frac{1}{2}Pa$
- Pa
- $2Pa$
- $\frac{1}{3}Pa$

Solution

The area of a regular polygon is $A = \frac{1}{2}Pa$.

Geometry – Area of a Circle

Question

Which of the following is the area of a circle with radius r?

- πr^2
- $2\pi r$
- πr
- $\frac{1}{2}\pi r^2$

Solution

The area of a circle is given by $A = \pi r^2$.

Geometry – Area of a Sector

Question

Which of the following is the area of a sector with radius r and central angle θ (in radians)?

- $\frac{1}{2}r^2\theta$
- $r^2\theta$
- $2r^2\theta$
- $\frac{1}{3}r^2\theta$

Solution

The area of a sector is $A = \frac{1}{2}r^2\theta$.

Geometry – Area of a Segment

Question

Which of the following is the area of a segment with radius r and central angle θ (in radians)?

- $\frac{1}{2}r^2(\theta - \sin\theta)$
- $r^2(\theta - \sin\theta)$
- $2r^2(\theta - \sin\theta)$
- $\frac{1}{3}r^2(\theta - \sin\theta)$

Solution

The area of a segment is $A = \frac{1}{2}r^2(\theta - \sin\theta)

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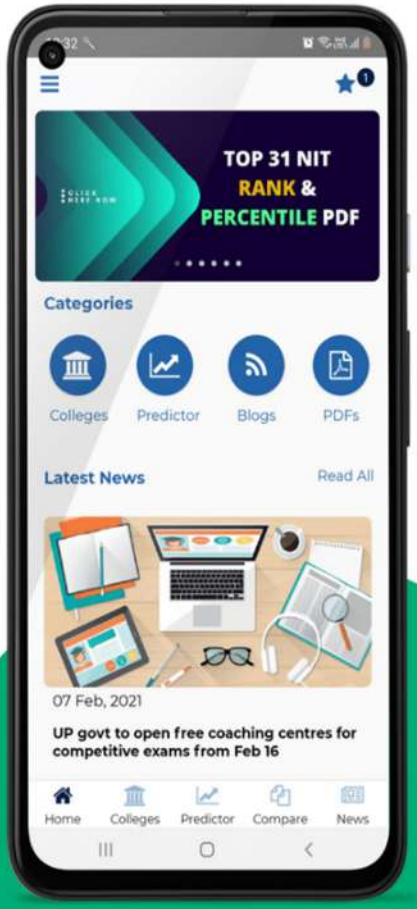

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