

# FIND VOLUME OF A RIGHT CIRCULAR CONE OBTAINED FROM A SECTOR OF A CIRCLE IN WHICH THE RADIUS IS 26 CM.

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UNDERSTANDING HOW TO DETERMINE THE VOLUME OF A RIGHT CIRCULAR CONE FORMED FROM A SECTOR OF A CIRCLE IS AN INTERESTING MATHEMATICAL PROBLEM THAT COMBINES GEOMETRY AND ALGEBRA. WHEN THE CIRCLE'S RADIUS IS GIVEN AS 26 CM, IT PROVIDES A SPECIFIC CONTEXT FOR APPLYING FORMULAS AND CONCEPTS RELATED TO SECTORS, ARCS, AND CONES. THIS ARTICLE WILL GUIDE YOU THROUGH THE STEP-BY-STEP PROCESS OF CALCULATING THE VOLUME OF SUCH A CONE, HIGHLIGHTING KEY PRINCIPLES, FORMULAS, AND PRACTICAL APPLICATIONS.

## INTRODUCTION TO THE PROBLEM

IN MANY GEOMETRY PROBLEMS, A COMMON TASK IS TO CONSTRUCT A CONE FROM A SEGMENT OF A CIRCLE'S SECTOR. IMAGINE TAKING A SECTOR OF A CIRCLE WITH RADIUS 26 CM, THEN SHAPING IT INTO A CONE BY JOINING ITS TWO RADII. DETERMINING THE VOLUME OF THIS CONE INVOLVES UNDERSTANDING THE PROPERTIES OF THE SECTOR, THE RESULTING CONE DIMENSIONS, AND THE RELEVANT VOLUME FORMULA.

## UNDERSTANDING THE SECTOR OF A CIRCLE

### WHAT IS A SECTOR?

A SECTOR OF A CIRCLE IS A PORTION OF THE CIRCLE ENCLOSED BY TWO RADII AND AN ARC. THE SIZE OF THE SECTOR IS DETERMINED BY ITS CENTRAL ANGLE, TYPICALLY MEASURED IN DEGREES OR RADIANS. THE AREA AND ARC LENGTH OF THE SECTOR DEPEND ON THIS ANGLE.

### AREA OF THE SECTOR

THE AREA OF A SECTOR WITH RADIUS  $(r)$  AND CENTRAL ANGLE  $(\theta)$  (IN DEGREES) IS CALCULATED AS:

$$A_{\text{SECTOR}} = \frac{\theta}{360^\circ} \times \pi r^2$$

SINCE THE RADIUS IS 26 CM, THE SECTOR'S AREA DEPENDS ON THE GIVEN CENTRAL ANGLE  $(\theta)$ .

### ARC LENGTH OF THE SECTOR

THE ARC LENGTH  $(L)$  OF THE SECTOR IS:

$$L = \frac{\theta}{360^\circ} \times 2\pi r$$

THIS ARC LENGTH BECOMES THE CIRCUMFERENCE OF THE BASE OF THE CONE AFTER SHAPING.

## FORMING THE CONE FROM THE SECTOR

### JOINING THE RADII

TO FORM A CONE FROM THE SECTOR, THE TWO RADII ARE JOINED, CREATING A CONICAL SURFACE. THE PROCESS EFFECTIVELY FOLDS THE SECTOR SO THAT ITS TWO STRAIGHT EDGES MEET, FORMING THE CONE'S APEX.

## DETERMINING THE CONE'S BASE RADIUS

THE KEY TO CALCULATING THE VOLUME LIES IN UNDERSTANDING THE CONE'S BASE RADIUS  $(R)$ . WHEN THE SECTOR IS FOLDED INTO A CONE:

- THE ARC LENGTH  $(L)$  BECOMES THE CIRCUMFERENCE OF THE CONE'S BASE.

- THEREFORE, THE BASE RADIUS  $(R)$  IS:

$$L = 2\pi R$$

SUBSTITUTING THE ARC LENGTH:

$$L = \frac{\theta}{360} \times 2\pi R = \frac{\theta}{360} \times R$$

RESULT: THE BASE RADIUS OF THE CONE IS DIRECTLY PROPORTIONAL TO THE CENTRAL ANGLE  $(\theta)$ :

$$R = \frac{\theta}{360} \times 26 \text{ cm}$$

## SLANT HEIGHT OF THE CONE

THE SLANT HEIGHT  $(L)$  OF THE CONE IS THE ORIGINAL RADIUS OF THE SECTOR, WHICH IS 26 CM. THIS IS BECAUSE WHEN THE SECTOR IS FOLDED INTO A CONE, THE ORIGINAL RADIUS BECOMES THE SLANT HEIGHT:

$$L = R = 26 \text{ cm}$$

## CALCULATING THE HEIGHT OF THE CONE

THE HEIGHT  $(H)$  OF THE CONE CAN BE FOUND USING THE PYTHAGOREAN THEOREM:

$$H = \sqrt{L^2 - R^2}$$

WHERE  $(L = 26 \text{ cm})$  AND  $(R)$  IS THE BASE RADIUS.

SUBSTITUTING THE EXPRESSION FOR  $(R)$ :

$$H = \sqrt{26^2 - \left(\frac{\theta}{360} \times 26\right)^2}$$

## VOLUME FORMULA FOR A CONE

THE VOLUME  $(V)$  OF A RIGHT CIRCULAR CONE IS GIVEN BY:

$$V = \frac{1}{3} \pi R^2 H$$

TO COMPUTE THIS VOLUME, WE NEED THE BASE RADIUS  $(R)$  AND THE HEIGHT  $(H)$ .

## STEP-BY-STEP CALCULATION

1. EXPRESS  $(R)$  IN TERMS OF  $(\theta)$ :

$$R = \frac{\theta}{360^\circ} \times 26$$

2. CALCULATE THE HEIGHT  $(h)$ :

$$h = \sqrt{26^2 - R^2} = \sqrt{676 - \left(\frac{\theta}{360^\circ} \times 26\right)^2}$$

3. FIND THE VOLUME  $(V)$ :

$$V = \frac{1}{3} \pi R^2 h$$

BY SUBSTITUTING  $(R)$  AND  $(h)$ , YOU CAN COMPUTE THE VOLUME FOR ANY GIVEN CENTRAL ANGLE  $(\theta)$ .

## PRACTICAL EXAMPLE: CALCULATING THE VOLUME FOR A SPECIFIC SECTOR

SUPPOSE THE CENTRAL ANGLE  $(\theta)$  OF THE SECTOR IS  $60^\circ$ . LET'S WALK THROUGH THE CALCULATIONS:

- CALCULATE  $(R)$ :

$$R = \frac{60^\circ}{360^\circ} \times 26 = \frac{1}{6} \times 26 \approx 4.33, \text{ cm}$$

- CALCULATE  $(h)$ :

$$h = \sqrt{676 - (4.33)^2} = \sqrt{676 - 18.75} \approx \sqrt{657.25} \approx 25.64, \text{ cm}$$

- CALCULATE  $(V)$ :

$$V = \frac{1}{3} \pi (4.33)^2 \times 25.64 \approx \frac{1}{3} \times 3.1416 \times 18.75 \times 25.64$$
$$V \approx \frac{1}{3} \times 3.1416 \times 480.75 \approx \frac{1}{3} \times 1509.47 \approx 503.16, \text{ cm}^3$$

THUS, THE CONE FORMED FROM A SECTOR WITH A  $60^\circ$  ANGLE AND RADIUS 26 CM HAS APPROXIMATELY 503.16 CUBIC CENTIMETERS OF VOLUME.

## APPLICATIONS AND SIGNIFICANCE

UNDERSTANDING THE PROCESS OF DERIVING THE VOLUME OF A CONE FROM A SECTOR OF A CIRCLE HAS PRACTICAL IMPLICATIONS IN VARIOUS FIELDS:

- **ENGINEERING:** DESIGNING CONICAL STRUCTURES FROM CIRCULAR MATERIALS.
- **ARCHITECTURE:** CREATING CONICAL ROOFS OR DOMES FROM SECTOR-SHAPED MATERIALS.

- **MANUFACTURING:** SHAPING PARTS FROM SECTORS OF CIRCULAR SHEETS.
- **EDUCATION:** ENHANCING SPATIAL REASONING AND GEOMETRIC UNDERSTANDING.

## TIPS FOR ACCURATE CALCULATIONS

TO ENSURE PRECISE RESULTS WHEN PERFORMING THESE CALCULATIONS:

- ALWAYS CONVERT ANGLES TO DEGREES OR RADIANS CONSISTENTLY.
- DOUBLE-CHECK THE RADIUS AND ANGLE VALUES BEFORE PLUGGING INTO FORMULAS.
- USE A CALCULATOR WITH SUFFICIENT PRECISION TO HANDLE SQUARE ROOTS AND MULTIPLICATION.
- UNDERSTAND THE GEOMETRIC RELATIONSHIPS BETWEEN THE SECTOR AND THE RESULTING CONE.

## CONCLUSION

FINDING THE VOLUME OF A RIGHT CIRCULAR CONE OBTAINED FROM A SECTOR OF A CIRCLE WITH A RADIUS OF 26 CM INVOLVES UNDERSTANDING THE INTERPLAY BETWEEN THE SECTOR'S CENTRAL ANGLE, ARC LENGTH, BASE RADIUS, AND THE CONE'S HEIGHT AND SLANT HEIGHT. BY APPLYING FORMULAS FOR SECTOR AREA AND ARC LENGTH, ALONG WITH THE CONE VOLUME FORMULA, YOU CAN ACCURATELY DETERMINE THE VOLUME FOR ANY GIVEN SECTOR.

WHETHER YOU'RE A STUDENT LEARNING GEOMETRY, AN ENGINEER DESIGNING CONICAL PARTS, OR SIMPLY INTERESTED IN MATHEMATICAL PROBLEM-SOLVING, MASTERING THIS PROCESS ENHANCES YOUR SPATIAL REASONING AND PROBLEM-SOLVING SKILLS. REMEMBER, THE KEY STEPS ARE TO RELATE THE SECTOR'S ARC LENGTH TO THE CONE'S BASE CIRCUMFERENCE, DETERMINE THE CONE'S HEIGHT FROM THE SLANT HEIGHT AND BASE RADIUS, AND THEN APPLY THE VOLUME FORMULA.

BY MASTERING THESE CONCEPTS AND CALCULATIONS, YOU'LL BE WELL-EQUIPPED TO HANDLE COMPLEX GEOMETRIC PROBLEMS INVOLVING SECTORS, CONES, AND VOLUME CALCULATIONS, ALL CENTERED AROUND A RADIUS OF 26 CM OR OTHER MEASUREMENTS.

## FREQUENTLY ASKED QUESTIONS

### WHAT IS THE FORMULA TO FIND THE VOLUME OF A RIGHT CIRCULAR CONE OBTAINED FROM A SECTOR OF A CIRCLE?

THE VOLUME OF THE CONE IS GIVEN BY  $V = (1/3) \pi r^2 h$ , WHERE  $r$  IS THE RADIUS OF THE BASE AND  $h$  IS THE HEIGHT OF THE CONE, WHICH CAN BE DERIVED FROM THE SECTOR'S DIMENSIONS.

### HOW DO YOU DETERMINE THE SLANT HEIGHT OF THE CONE FORMED FROM A SECTOR WITH RADIUS 26 CM?

THE SLANT HEIGHT CAN BE FOUND USING THE RADIUS OF THE SECTOR AND THE CENTRAL ANGLE, APPLYING THE FORMULA  $L = R$ , WHERE  $R$  IS THE RADIUS OF THE SECTOR (26 CM), AND THE ARC LENGTH RELATES TO THE BASE RADIUS OF THE CONE.

## WHAT IS THE SIGNIFICANCE OF THE SECTOR'S RADIUS IN CALCULATING THE CONE'S VOLUME?

THE SECTOR'S RADIUS DETERMINES THE SIZE OF THE ORIGINAL CIRCLE FROM WHICH THE CONE IS FORMED, INFLUENCING THE DIMENSIONS AND ULTIMATELY THE VOLUME OF THE RESULTING CONE.

## IF THE SECTOR HAS A RADIUS OF 26 CM AND A CERTAIN CENTRAL ANGLE, HOW DO YOU FIND THE VOLUME OF THE CONE FORMED?

FIRST, CALCULATE THE ARC LENGTH FROM THE SECTOR, THEN DETERMINE THE CONE'S BASE RADIUS. NEXT, FIND THE HEIGHT USING GEOMETRIC RELATIONS, AND FINALLY APPLY THE VOLUME FORMULA  $V = (1/3)\pi r^2 h$ .

## CAN THE VOLUME OF THE CONE BE MAXIMIZED BY CHANGING THE SECTOR'S ANGLE? HOW?

YES, ADJUSTING THE CENTRAL ANGLE OF THE SECTOR CHANGES THE ARC LENGTH AND BASE RADIUS, WHICH IN TURN AFFECTS THE CONE'S VOLUME. MAXIMIZING THE VOLUME INVOLVES OPTIMIZING THE ANGLE TO PRODUCE THE LARGEST POSSIBLE CONE.

## WHAT STEPS ARE INVOLVED IN DERIVING THE VOLUME OF A CONE FROM A SECTOR OF RADIUS 26 CM?

IDENTIFY THE SECTOR'S CENTRAL ANGLE, FIND THE ARC LENGTH, DETERMINE THE CONE'S RADIUS AND HEIGHT FROM THE SECTOR'S DIMENSIONS, AND THEN USE THE CONE VOLUME FORMULA  $V = (1/3)\pi r^2 h$  TO COMPUTE THE VOLUME.

## WHAT COMMON MISTAKE SHOULD BE AVOIDED WHEN CALCULATING THE VOLUME OF A CONE FORMED FROM A SECTOR?

A COMMON MISTAKE IS CONFUSING THE SECTOR'S RADIUS WITH THE CONE'S BASE RADIUS OR NEGLECTING TO CORRECTLY RELATE THE SECTOR'S ARC LENGTH AND CENTRAL ANGLE TO THE CONE'S DIMENSIONS. ALWAYS CAREFULLY CONNECT THE SECTOR'S PARAMETERS TO THE CONE'S GEOMETRY.

## ADDITIONAL RESOURCES

VOLUME OF A RIGHT CIRCULAR CONE FROM A SECTOR OF A CIRCLE WITH RADIUS 26 CM: AN EXPERT ANALYSIS

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## INTRODUCTION: UNLOCKING THE GEOMETRIC BEAUTY OF CONES

WHEN EXPLORING THE FASCINATING REALM OF THREE-DIMENSIONAL SHAPES, THE RIGHT CIRCULAR CONE STANDS OUT FOR ITS ELEGANT SYMMETRY AND PRACTICAL APPLICATIONS—FROM ENGINEERING AND ARCHITECTURE TO EVERYDAY OBJECTS LIKE ICE CREAM CONES AND TRAFFIC CONES. UNDERSTANDING HOW TO DERIVE THE VOLUME OF SUCH A SHAPE, ESPECIALLY WHEN IT IS CONSTRUCTED FROM A SECTOR OF A CIRCLE, REVEALS THE BEAUTIFUL INTERPLAY BETWEEN BASIC GEOMETRY AND ADVANCED PROBLEM-SOLVING TECHNIQUES.

IN THIS DETAILED REVIEW, WE DISSECT THE PROCESS OF FINDING THE VOLUME OF A RIGHT CIRCULAR CONE FORMED FROM A SECTOR OF A CIRCLE WITH A GIVEN RADIUS OF 26 CM. BY EXAMINING THE GEOMETRIC PRINCIPLES, STEP-BY-STEP CALCULATIONS, AND UNDERLYING CONCEPTS, WE AIM TO PROVIDE A COMPREHENSIVE UNDERSTANDING SUITABLE FOR STUDENTS, EDUCATORS, AND ENTHUSIASTS ALIKE.

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# UNDERSTANDING THE CONSTRUCTION: FROM SECTOR TO CONE

## THE SECTOR OF A CIRCLE

A SECTOR OF A CIRCLE IS ESSENTIALLY A “SLICE” OF THE CIRCLE, BOUNDED BY TWO RADII AND THE ARC CONNECTING THEIR ENDPOINTS. FOR A CIRCLE WITH RADIUS  $(R = 26 \text{ cm})$ , THE SECTOR IS CHARACTERIZED BY:

- RADIUS:  $(R = 26 \text{ cm})$ .
- CENTRAL ANGLE:  $(\theta)$  (IN DEGREES OR RADIAN).

THE SECTOR CAN BE VISUALIZED AS A “PIE-SLICE” THAT, WHEN MANIPULATED, CAN FORM A CONE. THE KEY TO THIS TRANSFORMATION LIES IN UNDERSTANDING THE ROLE OF THE SECTOR’S ARC LENGTH AND HOW IT RELATES TO THE CONE’S BASE CIRCUMFERENCE.

## FORMING A CONE FROM A SECTOR

SUPPOSE WE CUT A SECTOR FROM THE CIRCLE WITH RADIUS  $(R = 26 \text{ cm})$  AND THEN JOIN ITS TWO RADII. THE RESULTING SHAPE IS A CONE, WITH:

- BASE RADIUS  $(r)$ : DETERMINED BY THE ORIGINAL SECTOR’S ARC LENGTH.
- SLANT HEIGHT  $(L)$ : EQUAL TO THE ORIGINAL CIRCLE’S RADIUS  $(R = 26 \text{ cm})$ .
- HEIGHT  $(h)$ : TO BE DETERMINED BASED ON THE CONE’S DIMENSIONS.

THE PROCESS INVOLVES:

1. CALCULATING THE ARC LENGTH OF THE SECTOR, WHICH BECOMES THE CIRCUMFERENCE OF THE CONE’S BASE.
2. USING THE ARC LENGTH TO FIND THE BASE RADIUS  $(r)$ .
3. APPLYING THE CONE VOLUME FORMULA.

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## STEP-BY-STEP CALCULATION PROCESS

### 1. DETERMINING THE ARC LENGTH OF THE SECTOR

THE ARC LENGTH  $(L)$  OF A SECTOR WITH RADIUS  $(R)$  AND CENTRAL ANGLE  $(\theta)$  (IN DEGREES) IS GIVEN BY:

$$L = \frac{\theta}{360} \times 2\pi R$$

ASSUMPTION: FOR SIMPLICITY, LET’S ASSUME THE SECTOR’S CENTRAL ANGLE  $(\theta)$  IS SUCH THAT IT FORMS A CONE WITH A SPECIFIC BASE RADIUS, OR THAT IT IS A VARIABLE PARAMETER TO BE DETERMINED. TO PROCEED WITH AN EXAMPLE, CONSIDER THE FULL SECTOR ANGLE  $(\theta)$ , WHICH WILL BE SPECIFIED OR CHOSEN FOR OUR CALCULATION.

EXAMPLE: LET’S ASSUME THE SECTOR CORRESPONDS TO A  $(60^\circ)$  ANGLE (A COMMON CHOICE FOR ILLUSTRATIVE PURPOSES).

CALCULATING THE ARC LENGTH:

$$L = \frac{60^\circ}{360^\circ} \times 2\pi \times 26 = \frac{1}{6} \times 2\pi \times 26$$

$$L = \frac{1}{6} \times 52\pi \approx \frac{52 \times 3.1416}{6} \approx \frac{163.362}{6} \approx 27.227 \text{ cm}$$

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## 2. FINDING THE BASE RADIUS ( $r$ ) OF THE CONE

WHEN THE SECTOR IS ROLLED INTO A CONE, THE ARC LENGTH (  $L$  ) BECOMES THE CIRCUMFERENCE (  $C$  ) OF THE CONE'S BASE:

$$C = 2\pi r$$

THUS:

$$r = \frac{L}{2\pi}$$

USING THE CALCULATED ARC LENGTH:

$$r = \frac{27.227}{2\pi} \approx \frac{27.227}{6.2832} \approx 4.33 \text{ cm}$$

RESULT: THE CONE'S BASE RADIUS IS APPROXIMATELY 4.33 CM.

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## 3. CALCULATING THE CONE'S HEIGHT ( $h$ )

THE SLANT HEIGHT (  $L$  ) OF THE CONE IS EQUAL TO THE ORIGINAL CIRCLE'S RADIUS, (  $R = 26 \text{ cm}$  ):

$$L = 26 \text{ cm}$$

THE HEIGHT (  $h$  ) CAN BE FOUND USING THE PYTHAGOREAN THEOREM:

$$h = \sqrt{L^2 - r^2}$$

SUBSTITUTING THE KNOWN VALUES:

$$h = \sqrt{26^2 - 4.33^2} = \sqrt{676 - 18.75} \approx \sqrt{657.25} \approx 25.65 \text{ cm}$$

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## CALCULATING THE CONE'S VOLUME

THE VOLUME  $(V)$  OF A CONE IS GIVEN BY THE FORMULA:

$$V = \frac{1}{3} \pi R^2 H$$

PLUGGING IN THE VALUES:

$$V = \frac{1}{3} \pi (4.33)^2 \times 25.65$$

CALCULATIONS:

$$R^2 \approx 18.75$$

$$V \approx \frac{1}{3} \times 3.1416 \times 18.75 \times 25.65$$

$$V \approx 1.0472 \times 18.75 \times 25.65$$

$$V \approx 1.0472 \times 481.88 \approx 504.59 \text{ cm}^3$$

FINAL VOLUME (APPROXIMATE): 504.6 cm<sup>3</sup>

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## VARIATIONS AND CONSIDERATIONS

- DIFFERENT SECTOR ANGLES: CHANGING THE CENTRAL ANGLE  $(\theta)$  ALTERS THE ARC LENGTH  $(L)$ , WHICH AFFECTS THE BASE RADIUS  $(R)$  AND CONSEQUENTLY THE VOLUME.
- MAXIMUM VOLUME: FOR A FIXED RADIUS  $(R)$ , THE CONE'S MAXIMUM VOLUME OCCURS AT A SPECIFIC SECTOR ANGLE, WHICH CAN BE CALCULATED BY OPTIMIZING THE VOLUME FUNCTION.
- PRACTICAL APPLICATIONS: THIS METHOD DEMONSTRATES HOW SECTORS OF A CIRCLE CAN BE USED TO DESIGN CONICAL STRUCTURES WITH SPECIFIC VOLUME REQUIREMENTS, USEFUL IN MANUFACTURING AND DESIGN.

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## KEY TAKEAWAYS

- THE PROCESS OF DERIVING A CONE'S VOLUME FROM A SECTOR HINGES ON UNDERSTANDING THE RELATIONSHIP BETWEEN THE



SECTOR'S ARC LENGTH AND THE CONE'S BASE CIRCUMFERENCE.

- THE SLANT HEIGHT OF THE CONE CORRESPONDS TO THE ORIGINAL CIRCLE RADIUS.
- THE BASE RADIUS IS DIRECTLY PROPORTIONAL TO THE SECTOR'S ARC LENGTH, WHICH DEPENDS ON THE SECTOR ANGLE.
- ACCURATE CALCULATIONS INVOLVE A COMBINATION OF CIRCLE GEOMETRY, PYTHAGORAS THEOREM, AND VOLUME FORMULAS.

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## CONCLUSION: A GEOMETRIC SYNTHESIS

TRANSFORMING A SECTOR OF A CIRCLE INTO A RIGHT CIRCULAR CONE IS NOT ONLY A CAPTIVATING GEOMETRIC EXERCISE BUT ALSO A PRACTICAL TECHNIQUE IN VARIOUS ENGINEERING APPLICATIONS. WITH A CIRCLE RADIUS OF 26 CM, THE PROCESS INVOLVES CALCULATING THE SECTOR'S ARC LENGTH BASED ON ITS CENTRAL ANGLE, DERIVING THE CONE'S BASE RADIUS, AND THEN COMPUTING ITS VOLUME.

BY MASTERING THESE STEPS, ONE GAINS DEEPER INSIGHT INTO THE INTERCONNECTEDNESS OF GEOMETRIC PRINCIPLES, ENABLING PRECISE DESIGN AND ANALYSIS OF CONICAL STRUCTURES FROM CIRCULAR SECTORS. WHETHER FOR ACADEMIC PURPOSES OR REAL-WORLD APPLICATIONS, THIS UNDERSTANDING EMPOWERS MORE EFFICIENT AND CREATIVE USE OF GEOMETRIC CONCEPTS IN PROBLEM-SOLVING.

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NOTE: THE SPECIFIC VOLUME CALCULATION PRESENTED HERE ASSUMES A SECTOR WITH A  $60^\circ$  ANGLE FOR ILLUSTRATIVE PURPOSES. ADJUSTING THE SECTOR ANGLE WILL MODIFY THE ARC LENGTH, BASE RADIUS, AND RESULTING VOLUME ACCORDINGLY.

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Find Volume Of A Right Circular Cone Obtained From A Sector Of A Circle In Which The Radius Is 26 Cm

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