

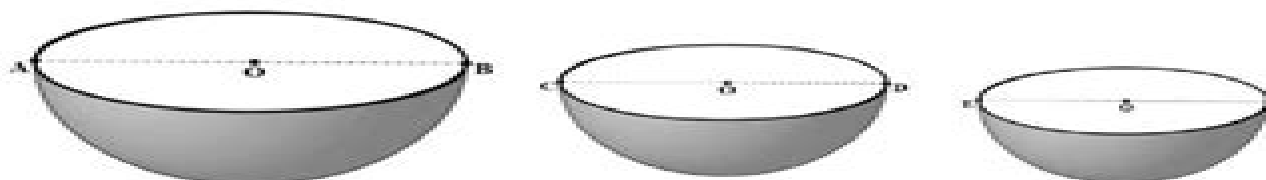
**SECTION A****QUESTION 1**

- (a) The 100th term of an arithmetic sequence is 512 and its common difference is 7, determine the first term of the sequence. (3)
- (b) The general term of a sequence is  $T_n = 2n + 3$ .
- (1) Show that the sequence is arithmetic. (3)
- (2) Determine, in terms of  $n$ , a simplified expression for  $S_n$ , the sum of the first  $n$  terms. (3)
- (c) Consider the given quadratic sequence: 4 ; 7 ; 14 ; 25 ; ...  
Determine a simplified expression for the  $n$ th term of the sequence. (4)
- [13]**

**QUESTION 2**

- (a) Given:  $\sum_{n=1}^x 108 \times \left(\frac{2}{3}\right)^n$
- (1) Determine the first two terms. (2)
- (2) If  $\sum_{n=1}^x 108 \times \left(\frac{2}{3}\right)^n = \frac{520}{3}$ , determine the value of  $x$ . (4)
- (b) Hollow plastic hemispheres are created such that each successive one fits into the previous one.

The radii  $OB = 21$  cm,  $OD = 3$  cm and  $OF = \frac{3}{7}$  cm.



Determine the sum of the outer surface areas, as shaded in the diagram, of all such hemispheres created by continuing the pattern indefinitely.

**Useful formula:** Surface Area of a hemisphere =  $2\pi r^2$

(5)  
**[11]**

# Maths Past Papers Grade 12 Ieb

**JS Bruner**



**Maths Past Papers Grade 12 Ieb:**

This book delves into Maths Past Papers Grade 12 Ieb. Maths Past Papers Grade 12 Ieb is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Maths Past Papers Grade 12 Ieb, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Maths Past Papers Grade 12 Ieb
- Chapter 2: Essential Elements of Maths Past Papers Grade 12 Ieb
- Chapter 3: Maths Past Papers Grade 12 Ieb in Everyday Life
- Chapter 4: Maths Past Papers Grade 12 Ieb in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Maths Past Papers Grade 12 Ieb. The first chapter will explore what Maths Past Papers Grade 12 Ieb is, why Maths Past Papers Grade 12 Ieb is vital, and how to effectively learn about Maths Past Papers Grade 12 Ieb.
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5. In chapter 4, the author will scrutinize the relevance of Maths Past Papers Grade 12 Ieb in specific contexts. The fourth chapter will explore how Maths Past Papers Grade 12 Ieb is applied in specialized fields, such as education, business, and technology.
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