

EXERCISE 1.3

PAGE NO: 6

1. Show that the square of any positive integer is either of the form $4q$ or $4q + 1$ for some integer q .

Solution:

According to Euclid's division lemma,

$$a = bq + r$$

According to the question,

When $b = 4$,

$$a = 4k + r, 0 \leq r < 4$$

When $r = 0$, we get, $a = 4k$

$$a^2 = 16k^2 = 4(4k^2) = 4q, \text{ where } q = 4k^2$$

When $r = 1$, we get, $a = 4k + 1$

$$a^2 = (4k + 1)^2 = 16k^2 + 1 + 8k = 4(4k^2 + 2k + 1) = 4q + 1, \text{ where } q = k(4k + 2)$$

When $r = 2$, we get, $a = 4k + 2$

$$a^2 = (4k + 2)^2 = 16k^2 + 4 + 16k = 4(4k^2 + 4k + 1) = 4q, \text{ where } q = 4k^2 + 4k + 1$$

When $r = 3$, we get, $a = 4k + 3$

$$a^2 = (4k + 3)^2 = 16k^2 + 9 + 24k = 4(4k^2 + 6k + 2) + 1 = 4q + 1, \text{ where } q = 4k^2 + 6k + 2$$

Therefore, the square of any positive integer is either of the form $4q$ or $4q + 1$ for some integer q .

Hence Proved.

2. Show that cube of any positive integer is of the form $4m$, $4m + 1$ or $4m + 3$, for some integer m .

Solution:

Let a be any positive integer and $b = 4$.

According to Euclid Division Lemma,

$$a = bq + r \quad [0 \leq r < b]$$

$$a = 3q + r \quad [0 \leq r < 4]$$

According to the question, the possible values of r are,

$$r = 0, r = 1, r = 2, r = 3$$

When $r = 0$,

$$a = 4q + 0$$

$$a = 4q$$

Taking cubes on LHS and RHS,

We have,

$$a^3 = (4q)^3$$

$$a^3 = 4(16q^3)$$

$$a^3 = 4m \quad [\text{where } m \text{ is an integer} = 16q^3]$$

When $r = 1$,

$$a = 4q + 1$$

Taking cubes on LHS and RHS,

We have,

$$a^3 = (4q + 1)^3$$

$$a^3 = 64q^3 + 1^3 + 3 \times 4q \times 1(4q + 1)$$

$$a^3 = 64q^3 + 1 + 48q^2 + 12q$$

Mathematics Exemplar Papers 24

Emilie Sanchez



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Table of Contents Mathematics Exemplar Papers 24

1. Understanding the eBook Mathematics Exemplar Papers 24
 - The Rise of Digital Reading Mathematics Exemplar Papers 24
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Exemplar Papers 24
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematics Exemplar Papers 24
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Exemplar Papers 24
 - Personalized Recommendations

-
- Mathematics Exemplar Papers 24 User Reviews and Ratings
 - Mathematics Exemplar Papers 24 and Bestseller Lists
5. Accessing Mathematics Exemplar Papers 24 Free and Paid eBooks
 - Mathematics Exemplar Papers 24 Public Domain eBooks
 - Mathematics Exemplar Papers 24 eBook Subscription Services
 - Mathematics Exemplar Papers 24 Budget-Friendly Options
 6. Navigating Mathematics Exemplar Papers 24 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics Exemplar Papers 24 Compatibility with Devices
 - Mathematics Exemplar Papers 24 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics Exemplar Papers 24
 - Highlighting and Note-Taking Mathematics Exemplar Papers 24
 - Interactive Elements Mathematics Exemplar Papers 24
 8. Staying Engaged with Mathematics Exemplar Papers 24
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Exemplar Papers 24
 9. Balancing eBooks and Physical Books Mathematics Exemplar Papers 24
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Exemplar Papers 24
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Mathematics Exemplar Papers 24
 - Setting Reading Goals Mathematics Exemplar Papers 24
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Mathematics Exemplar Papers 24
 - Fact-Checking eBook Content of Mathematics Exemplar Papers 24

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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