NCERT Exemplar Solutions For Class 10 Maths Chapter 1-Real Numbers

At k = -1, $x = 4(-1)^2 - 1 = 4 - 1 = 3$, is not divisible by 8. At k = 0, $x = 4(0)^2 - 1 = 0 - 1 = -1$, is not divisible by 8. Let us assume that n = 0dd:

So, when n = 0dd i.e., n = 2k + 1, where k is an integer, We get, $\Rightarrow x = 2k + 1$ $\Rightarrow x = (2k+1)^2 - 1$ $\Rightarrow x = 4k^2 + 4k + 1 - 1$ $\Rightarrow x = 4k^2 + 4k$ $\Rightarrow x = 4k(k+1)$ At k = -1, x = 4(-1)(-1+1) = 0 which is divisible by 8. At k = 0, x = 4(0)(0+1) = 0 which is divisible by 8. At k = 1, x = 4(1)(1+1)-8 which is divisible by 8.

From the above two observation, we can conclude that, if n is odd, n²-1 is divisible by 8.

Hence, option (C) is the correct answer.

4. If the HCF of 65 and 117 is expressible in the form 65m - 117, then the value of m is

- (A) 4 (B) 2
- (C) 1 (D) 3
- Solution: (B) 2
 - Explanation:

Let us find the HCF of 65 and 117,

$$117 = 1 \times 65 + 52$$

 $65 = 1 \times 52 + 13$
 $52 = 4 \times 13 + 0$

Hence, we get the HCF of 65 and 117 = 13.

According to the question,

Hence, option (B) is the correct answer.

5. The largest number which divides 70 and 125, leaving remainders 5 and 8, respectively, is

- (A) 13 (B) 65
- (C) 875 (D) 1750
- Solution: (A) 13
 - Explanation:

According to the question,

We have to find the largest number which divides 70 and 125, leaving remainders 5 and 8.

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- 1. Understanding the eBook Grade1maths Examplar 2013 Answers
 - The Rise of Digital Reading Grade1maths Examplar 2013 Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Grade1maths Examplar 2013 Answers
 - Exploring Different Genres
 - $\circ\,$ Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grade1maths Examplar 2013 Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Grade1maths Examplar 2013 Answers

- Personalized Recommendations
- Grade1maths Examplar 2013 Answers User Reviews and Ratings
- Grade1maths Examplar 2013 Answers and Bestseller Lists
- 5. Accessing Grade1maths Examplar 2013 Answers Free and Paid eBooks
 - Grade1maths Examplar 2013 Answers Public Domain eBooks
 - Grade1maths Examplar 2013 Answers eBook Subscription Services
 - Grade1maths Examplar 2013 Answers Budget-Friendly Options
- 6. Navigating Grade1maths Examplar 2013 Answers eBook Formats
 - o ePub, PDF, MOBI, and More
 - Grade1maths Examplar 2013 Answers Compatibility with Devices
 - Grade1maths Examplar 2013 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade1maths Examplar 2013 Answers
 - Highlighting and Note-Taking Grade1maths Examplar 2013 Answers
 - Interactive Elements Grade1maths Examplar 2013 Answers
- 8. Staying Engaged with Grade1maths Examplar 2013 Answers
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade1maths Examplar 2013 Answers
- 9. Balancing eBooks and Physical Books Grade1maths Examplar 2013 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade1maths Examplar 2013 Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade1maths Examplar 2013 Answers
 - Setting Reading Goals Grade1maths Examplar 2013 Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade1maths Examplar 2013 Answers

- Fact-Checking eBook Content of Grade1maths Examplar 2013 Answers
- 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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