

3. Here are some factors of 48.

1 2 3 4 6 8 _____ 24 48.

(a) Write the missing factors of 48.

Factors of 24: 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

=> Missing factors : 12 and 16

Answer: 12 and 16

(b) Write down a factor of 48 which is also a cube number.

From the above factors, 8 is the cube number.

Answer: 8

(c) Write down a pair of factors of 48 which are the co-prime numbers.

(co-prime numbers are the numbers which have HCF one.)

(3, 8) or (3, 16)

Answer: (3, 8) or (3, 16)

(d) Write down the sum of all factors of 48.

$$\begin{aligned}\text{sum of all factors} &= 1 + 2 + 3 + 4 + 6 + 8 + 12 + 16 + 24 + 48 \\ &= 124\end{aligned}$$

Answer: 124

A perfect number is a special type of number. If you add up all of its factors and halve the total, the result is the original number.

(e) Find a perfect number which is less than 12.

Factors of 6: 1, 2, 3, 6

$$\text{Sum of factors} = 1 + 2 + 3 + 6 = 12$$

$$\text{Sum} \div 2 = 12 \div 2 = 6$$

=> 6 is perfect number.

Answer: 6

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Terry C. Jones

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1. Understanding the eBook Year 5 Iseb Maths Paper
 - The Rise of Digital Reading Year 5 Iseb Maths Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Year 5 Iseb Maths Paper
 - 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 Year 5 Iseb Maths Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Year 5 Iseb Maths Paper
 - Personalized Recommendations
 - Year 5 Iseb Maths Paper User Reviews and Ratings
 - Year 5 Iseb Maths Paper and Bestseller Lists
5. Accessing Year 5 Iseb Maths Paper Free and Paid eBooks
 - Year 5 Iseb Maths Paper Public Domain eBooks
 - Year 5 Iseb Maths Paper eBook Subscription Services
 - Year 5 Iseb Maths Paper Budget-Friendly Options
6. Navigating Year 5 Iseb Maths Paper eBook Formats

- ePub, PDF, MOBI, and More
- Year 5 Iseb Maths Paper Compatibility with Devices
- Year 5 Iseb Maths Paper Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Year 5 Iseb Maths Paper
- Highlighting and Note-Taking Year 5 Iseb Maths Paper
- Interactive Elements Year 5 Iseb Maths Paper

8. Staying Engaged with Year 5 Iseb Maths Paper

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Year 5 Iseb Maths Paper

9. Balancing eBooks and Physical Books Year 5 Iseb Maths Paper

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Year 5 Iseb Maths Paper

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Year 5 Iseb Maths Paper

- Setting Reading Goals Year 5 Iseb Maths Paper
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Year 5 Iseb Maths Paper

- Fact-Checking eBook Content of Year 5 Iseb Maths Paper
- 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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