

# 2 Number skills

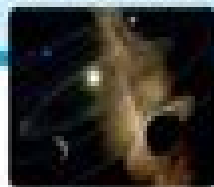
NUMBER



## 2.1 Factors, primes and multiples

You will learn to:

- Understand the difference between multiples, factors and primes
- Find all the factor pairs of any whole number
- Find the HCF and LCM of two numbers



**Why learn this?**

Astronomers use this (M) to work out what planets are going to be in line.

**Flamingo**

What are the missing numbers?

- $8 \div (\square) = 8$
- $(\square) \div 4 = 8$
- $12 \div (\square) = 8$
- $(\square) \div 16 = 8$
- $1 \div (\square) = 8$



**Explains**

How many rows of books and how many rows of boxes? Would you need to make walls the same height?

### Exercise 2.1

1 Look at these numbers.

2, 3, 4, 6, 8, 12, 16, 18, 20, 24, 30

Which of the numbers are

- a multiples of 3    b multiples of 6    c factors of 40?

2 Look at these numbers.

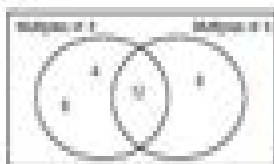
4, 6, 8, 12, 16, 18, 20, 24, 28, 30, 32, 36

a Which of the numbers are multiples of

- 2, 4    b 6    c 4 and 6.

b Copy and complete this Venn diagram.

Write each of the numbers in the correct section.



3 Here is a list of numbers.

2, 3, 4, 6, 11, 14, 17, 21, 26

Which of the numbers are prime numbers?

**Discussion** Is a prime number always an odd number? Is an odd number always a prime number?

4 a Write down all the factors of 28.

b Write down all the prime factors of 28.

**Q10 hint**

A multiple of 3 is a number in the 3 times table.  
A factor of 9 is a whole number that divides evenly into 9.

**Q20 Library test**

A Venn diagram shows sets of items.

**Easy point**

A prime number has exactly two factors, 1 and itself.

**Easy point**

A prime factor is a factor of a number that is also a prime number.

**Worked example**

Find all the factors of 12.

- $1 \times 12$
- $2 \times 6$
- $3 \times 4$
- $4 \times 3$
- $6 \times 2$
- $8 \times 3$

Work systematically to find the factor pairs.

12 does not divide by 5.

Factors are 1, 2, 3, 4, 6, 8, 9, 12, 16, 24, 36, 42

List all the factors in order.



5 Find all the factors of

- a 48    b 60    c 104    d 100    e 36

**Discussion** What type of number has an odd number of factors?

6 **Problem-solving** Hopley finds all the factors of a number. This is her list.

1, 2, 3, 4, , 8, 9, 12, , , 16, 18, , 24, , 36, 48, 60

What are the missing numbers?

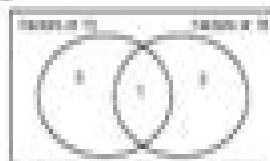
7 a Write down all the factors of 8.

b Write down all the factors of 12.

c Write down the common factors of 8 and 12.

d What is the highest common factor of 8 and 12?

8 a Copy and complete this Venn diagram to show the factors of 15 and 18.



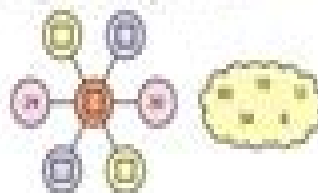
b What is the HCF of 15 and 18?

9 Find the HCF of each pair of numbers.

- a 8 and 9    b 20 and 24    c 8 and 16

**Discussion** Is the HCF always one of the numbers?

10 **Problem-solving** **Reversing** In the number wheel, the HCF of opposite numbers is equal to the number in the middle. Use the numbers from the cloud to copy and complete the wheel. Explain how you worked out your answers.



**Q20 Library test**

What factors do 8 and 12 have in common?

**Easy point**

The highest common factor (HCF) of two numbers is the largest number that is a factor of both numbers.

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**R Pring**



**Pearson Active Year 9 Answers:**

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**Table of Contents Pearson Active Year 9 Answers**

1. Understanding the eBook Pearson Active Year 9 Answers
  - The Rise of Digital Reading Pearson Active Year 9 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Pearson Active Year 9 Answers
  - 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 Pearson Active Year 9 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Pearson Active Year 9 Answers
  - Personalized Recommendations
  - Pearson Active Year 9 Answers User Reviews and Ratings
  - Pearson Active Year 9 Answers and Bestseller Lists
5. Accessing Pearson Active Year 9 Answers Free and Paid eBooks
  - Pearson Active Year 9 Answers Public Domain eBooks
  - Pearson Active Year 9 Answers eBook Subscription Services
  - Pearson Active Year 9 Answers Budget-Friendly Options
6. Navigating Pearson Active Year 9 Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Pearson Active Year 9 Answers Compatibility with Devices
  - Pearson Active Year 9 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Pearson Active Year 9 Answers
  - Highlighting and Note-Taking Pearson Active Year 9 Answers
  - Interactive Elements Pearson Active Year 9 Answers
8. Staying Engaged with Pearson Active Year 9 Answers

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Pearson Active Year 9 Answers
9. Balancing eBooks and Physical Books Pearson Active Year 9 Answers
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Pearson Active Year 9 Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Pearson Active Year 9 Answers
- Setting Reading Goals Pearson Active Year 9 Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pearson Active Year 9 Answers
- Fact-Checking eBook Content of Pearson Active Year 9 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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