2 Number skills

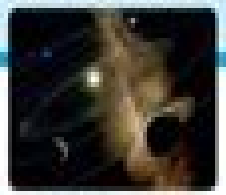
MASTER

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

CONFIDENCE



Why learn this?
Astronomers use the LCM to work out when planets are going to be in line.

Fluency
What are the missing numbers?
- 6 × □ = 36
- □ × 4 = 36
- 12 × □ = 36
- □ × 18 = 36
- 1 × □ = 36

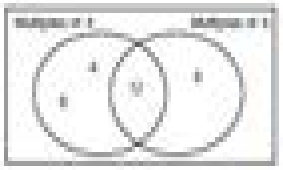
Explore
How many rows of bricks and how many rows of brick blocks would you need to make walls the same height?

Exercise 2.1

1 Look at these numbers.
2, 3, 4, 6, 8, 12, 14, 16, 20, 24, 30
Which of the numbers are
a multiples of 3 b multiples of 6 c factors of 40?

Q1 hint
A multiple of 3 is a number in the 3 times table.
A factor of 40 is a whole number that divides exactly into 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
i 4 ii 6 iii 4 and 6.
b Copy and complete this **Venn diagram**.
Write each of the numbers in the correct section.



Q2b Literacy hint
A Venn diagram shows sets of items.

3 Here is a list of numbers.
2, 3, 6, 9, 11, 14, 17, 21, 25
Which of the numbers are **prime numbers**?
Discussion Is a prime number always an odd number? Is an odd number always a prime number?

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

4 a Write down all the factors of 28.
b Write down all the **prime factors** of 28.

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

Worked example
Find all the factors of 72.
1 × 72
2 × 36
3 × 24
4 × 18
6 × 12
8 × 9
Factors are 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72

Work systematically to find the factor pairs.

72 does not divide by 5.

List all the factors in order.

5 Find all the factors of
a 48 b 16 c 104 d 100 e 36
Discussion What type of number has an odd number of factors?

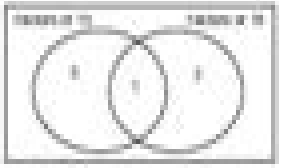
6 Problem-solving Hayley finds all the factors of a number.
This is her list.
1, 2, 3, 4, □, 9, 12, 13, □, □, 36, 39, □, 78, □, 156, 234, 468
What are the missing numbers?

Q7a Literacy hint
What factors do 8 and 12 have in common?

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?

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

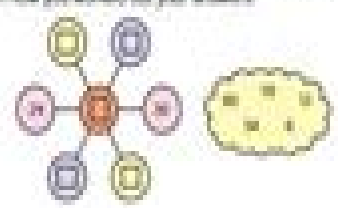
8 a Copy and complete this Venn diagram to show the factors of 16 and 18.



b What is the HCF of 16 and 18?

9 Find the HCF of each pair of numbers.
a 6 and 8 b 20 and 24 c 8 and 18
Discussion Is the HCF always one of the numbers?

10 Problem-solving / Reasoning In this 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.



Subject links: Technology (Q13, Q15)

Pearson Active Year 9 Answers

Yi-Tong Ma

Pearson Active Year 9 Answers:

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