Whole Numbers: Key Skill 2





A prime number has 2 factors (1 and the number itself).

A composite number has more than 2 factors.

A **factor** is a whole number that can be divided exactly into another whole number. For example, the factors of 12 are 12, 6, 4, 3, 2 and 1.



Knowing prime and composite numbers helps children to divide larger numbers and work with fractions. It helps when simplifying fractions. 1 is neither prime nor composite. It has only 1 factor: itself.



Create factor trees for numbers to find if they are prime or composite.

Use playing cards to make a game. Flip a card, and ask your child whether it is a prime or composite number, and why. Flip 2 cards to create bigger numbers. See who can get the most right in a row.

We can explain whether a whole number is prime, composite or neither by finding its factors:

13 has 2 factors (1 and 13). Therefore, 13 is a prime number.

21 has more than 2 factors (1, 3, 7, 21). Therefore, 21 is a composite number.

WEB LINKS go to:

Video: Factor tree demonstration Video: Prime and composite numbers Video: What are factors? Game: Prime numbers Game: Number factors Game: Factor trees