

Prime and Composite Numbers



Try These

- 1. List all the factors of each number.
 - a) 15 _____ b) 18 _____ c) 27 _____

- d) 34 _____ e) 8 _____ f) 5 ____
- 2. Tell if each number in question 1 is prime or composite.
 - a) _____ b) _____ c) ____
 - d) _____ e) ____ f) ____
- **3.** Write 2 numbers less than 50 that have exactly 3 factors.

Practice

1. Play this game with a partner.

You will need 6 number cubes, each labelled 1 to 6.

Each player's turn lasts until the total rolled on the number cubes is a prime number.

The object of the game is to roll a prime number total using the least number of rolls.

- On each roll, you may choose to use from 2 to 6 number cubes. The number of rolls needed to reach a prime number is your score for that round.
- ► The player with the lower score at the end of 5 rounds wins.
- 2. Three numbers between 80 and 100 are prime numbers.

What numbers are they? _____

3. Eight numbers between 31 and 41 are composite numbers.

What numbers are they? _____

4. Use the table to sort the numbers from 30 to 50.

	Odd	Even
Prime		
Composite		

Stretch Your Thinking

Write the ages of 6 relatives.

Tell whether each age is a prime number or a composite number.



Investigating Factors



Try These

- Use the Venn diagram to show the factors of 15 and 20.
 What are the common factors? ______
- **2.** Find all the factors of each number.
 - **a)** 36 _____
 - **b)** 45 _____
 - **c)** 60 _____



Practice

1. Find the common factors of each pair of numbers.

. . . .

	a) 30, 50					
	b)	16, 42				
2.	• Find the factors of each number that are prime.					
	a)	45	b) 32	c) 70		
	Eac	tors that are prime:	Eactor that is primo:	Factors that are prime:		
	Гас	tors that are prime.	Factor that is prime.	Factors that are prime.		
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S	tret	ch Your Thinking	• • • • • • • • • • • • • • •			

Draw 3 different factor trees for 72.