11.2	.22			
	Arithmetic LO	: To find factors of	f whole numbers.	
	I know what factors are. I can find factors of whole numbers.			
		that factors alway		

<u>Factors</u>



Factors are numbers that divide exactly into another number.

For example, the factors of 8 are:

1, 2, 4 and 8.

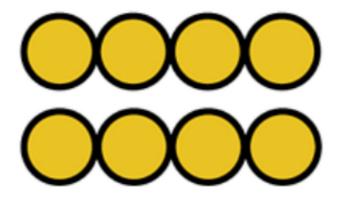
Factors can be shown in pairs. Each pair multiplies to make 8.

The factor pairs of 8 can be shown:

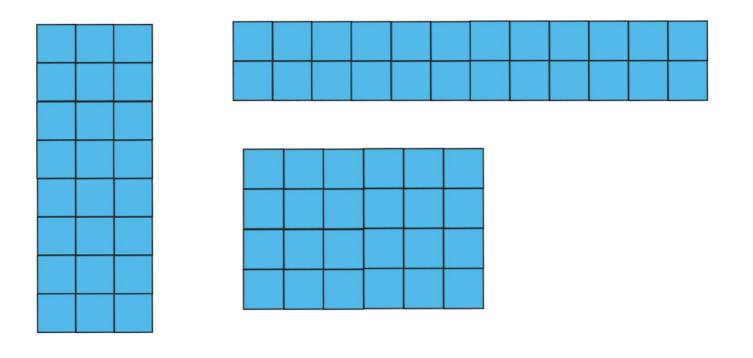
$$1 \times 8 = 8$$



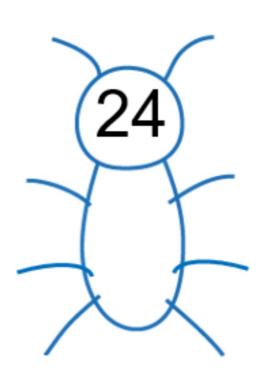
2 × ?



What multiplication facts can you see from these cubes?



Using those multiplication facts, can you name the factors of 24?

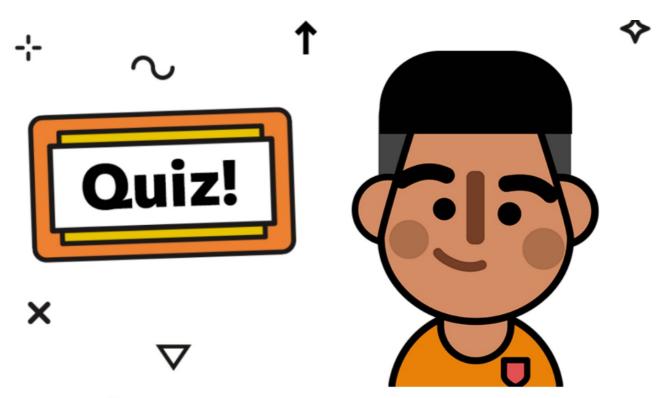


As a table, use the multilink cubes to find the factor pairs of 16.



Can you use the multilink cubes to find factor pairs of 19?

What does this tell you about the number 19?



Factor pairs

Practise factor pairs and test your knowledge with this multiple choice quiz.

Start

Your turn!

Find the factor pairs of:

- 1) 12
- 2) 18
- 3) 35
- 4) 48
- 5) 45
- 6) 64
- 7) 96

Find the factor pairs of:

- 1) 6
- 2)8
- 3) 12
- 4) 14
- 5) 24
- 6) 27

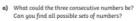
LA - use multilink wi TA to support.

Challe

Use your kn factors and find all the 1,22

Extension activity:

- Rebecca says, "This year, my sister's age is a factor of 36. Next year, her age will be a factor of 30." How old could she be?
- 2) Rafael says,
- "I am thinking of 3 consecutive numbers less than 100. The first number has 5 as one of its factors, the second number has 1 as a factor and the third number has 2 as one of its factors."



- b) Can you explain how you solved the problem?
- Alfie is identifying the factors of 36. He says 20 is factor of 36. Can you explain what mistake he has made?
- 2) Are these statements true or false?
 Explain your thinking.
 - a) Factors come in pairs so all nu number of factors.
 - b) 48 has more factors than any below 100.
 - c) Larger numbers have more fac

<u>Plenary</u>

