

A pictogram is a way of visually representing a set of data. It consists of symbols that represent a **number of items** and a **key** that displays the value of each symbol.

The pictogram below shows how many children prefer each flavour of ice cream.

Looking at the key, we can see that each ice cream symbol represents 5 children.



Flavour	Number of children
Chocolate	
Vanilla	
Caramel	E E E

number of ice cream symbols in each row by the value of each symbol: Chocolate =  $2 \times 5 = 10$ 

To find the number of children who prefer each ice cream flavour, we multiply the

We can calculate the **total number of children** by finding the **number of ice cream** symbols and multiplying this by the value of each ice cream symbol (from the key): 2 + 4 + 3 = 9 ice cream symbols in total

 $9 \times 5 = 45$  children

We can figure out how many more children like vanilla than chocolate, by finding the difference in the number of symbols, and multiplying this by the value of each

symbol: 4 (vanilla) - 2 (chocolate) = 2 symbols

2 ice cream symbols x = 5 = 10 children

## Method Let's look at how we can deduce the value of each symbol in a pictogram!

	Day	Number sold
	Monday	
	Tuesday	•, •
	Wednesday	
	Thursday	• · • · • · • · • · • · • · • · • · • ·
	Friday	
_		

Add the number of symbols for **Thursday** and **Friday**.

This pictogram shows the number of pizzas sold by a pizzeria from Monday to Friday. There were 24 more pizzas sold on Thursday and Friday combined than on Monday.

Thursday Friday

combined number for **Thursday** and **Friday**:

2

3

2

4

Thursday and Friday Monday

 $24 \div 4 = 6$ 

1 pizza symbol represents 6 pizzas! Key: = 6 pizzas

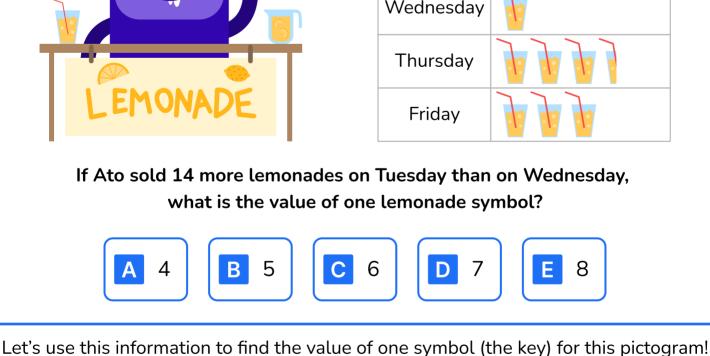
**Example Question** 

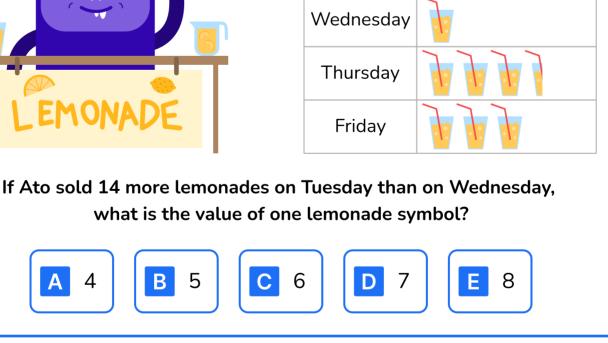
Monday

## Day

Ato opens a lemonade stand and records the number of lemonades sold from Monday to Friday. This is recorded in the pictogram below.

Tuesday



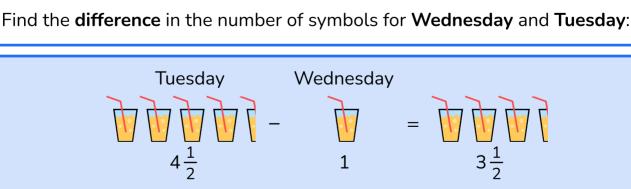


Wednesday

Number sold

Find the number of symbols for Tuesday and Wednesday.

Tuesday



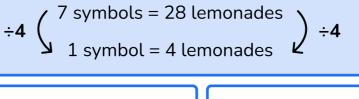
We now know that  $3\frac{1}{2}$  symbols = 14 lemonades.

3 It is hard to divide 14 by  $3\frac{1}{2}$ . Let's double these numbers to make it easier!

$$x2$$
  $\begin{pmatrix} 3\frac{1}{2} \text{ symbols} = 14 \text{ lemonades} \\ 7 \text{ symbols} = 28 \text{ lemonades} \end{pmatrix} x2$ 
He both sides by 7 to find the value of 1 symbols

We need to find the value of 1 symbol. To do this, we need to do some division.

Now we can divide both sides by 7 to find the value of 1 symbol!



The correct answer is **A**. One lemonade = 4 lemonades Key: symbol represents 4 lemonades!