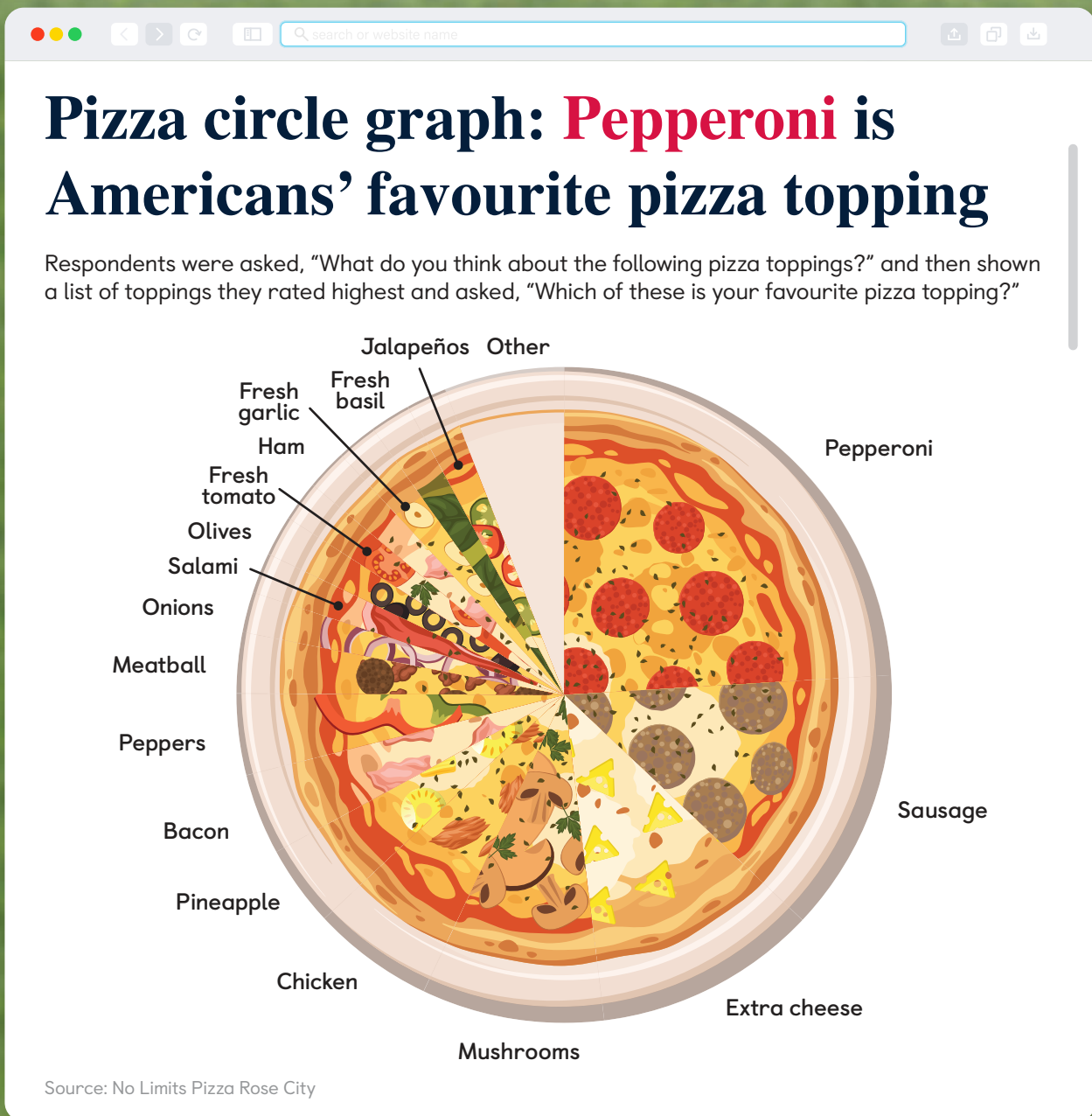


Anchor Task



saw a pizza circle graph on the internet and wanted to make one representing the favourite pizza topping of his class.



He asked his class for their favourite pizza toppings and recorded the results.



sausage



pepperoni



extra
cheese

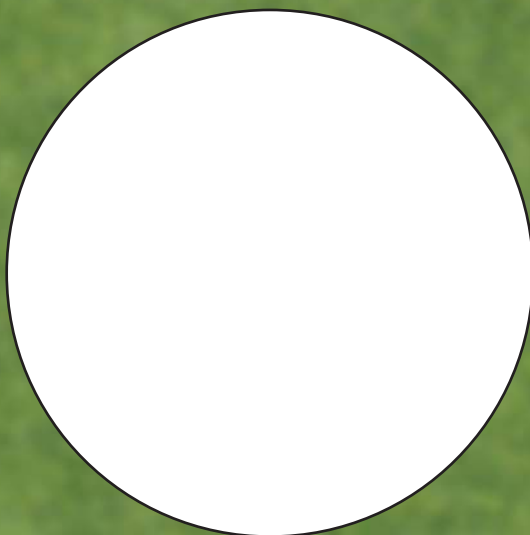


pineapple



chicken

Think of ways to show the results on a circle graph.



A circle graph is also
called a pie chart.



Our Friends' Ideas



thinks it is useful to make a table.

topping	chicken	extra cheese	pepperoni	pineapple	sausage
number of pupils	8	12	1	8	3



makes a different table.

topping	boys	girls	total
chicken	5	3	8
extra cheese	7	5	12
pepperoni	1	0	1
pineapple	3	5	8
sausage	2	1	3



calculates the fraction of the class that likes each pizza topping.

$$8 + 12 + 1 + 8 + 3 = 32$$

chicken $\frac{8}{32} = \frac{1}{4}$

extra cheese $\frac{12}{32} = \frac{6}{16} = \frac{3}{8}$

pineapple $\frac{8}{32} = \frac{1}{4}$

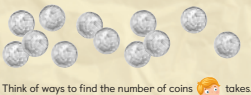
pepperoni or sausage $\frac{4}{32} = \frac{1}{8}$



I simplify the fractions.

Anchor Task

If you cut up a coin, it can no longer be used.



I take $\frac{1}{3}$ of these coins.

We remember calculating fraction of a set...



...and simplifying fractions.

's way

$$2\frac{4}{6} = 2\frac{4}{6} + \frac{4}{6} = \frac{12}{6} + \frac{4}{6} = \frac{16}{6}$$

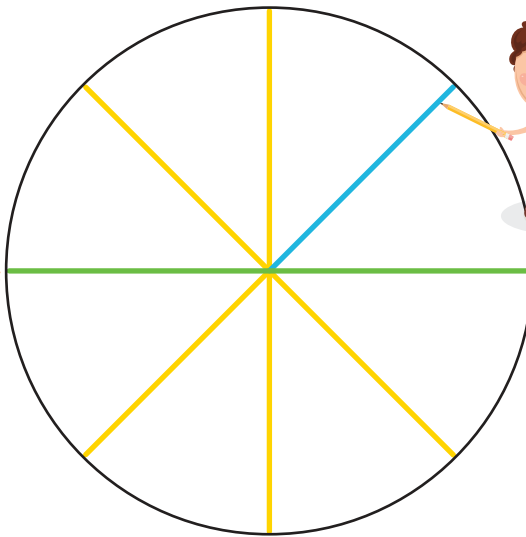
$$2\frac{4}{6} = \frac{16}{6} = \frac{32}{12} = \frac{48}{18}$$

So, $2\frac{4}{6} = \frac{24}{9}$ because both numbers are equal to $\frac{48}{18}$.



folds a circle cut-out into eighths.

This is the **diameter** of the circle.

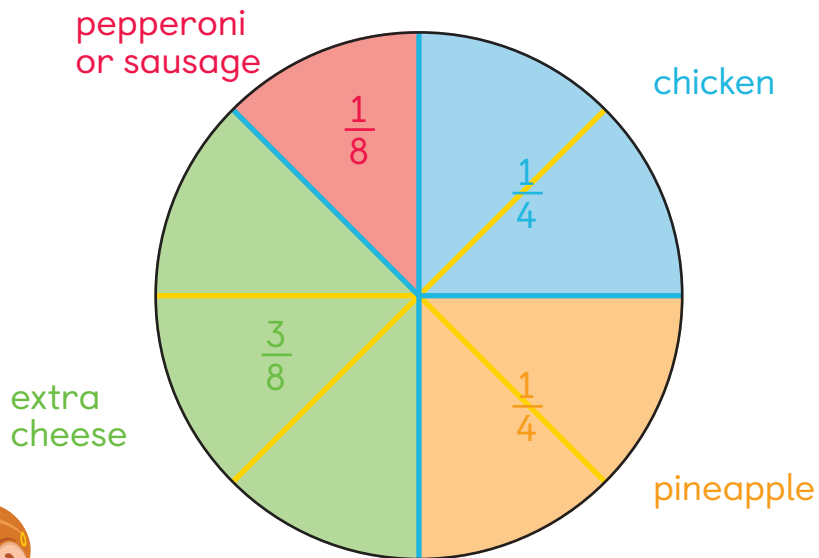


This is the **radius** of the circle.



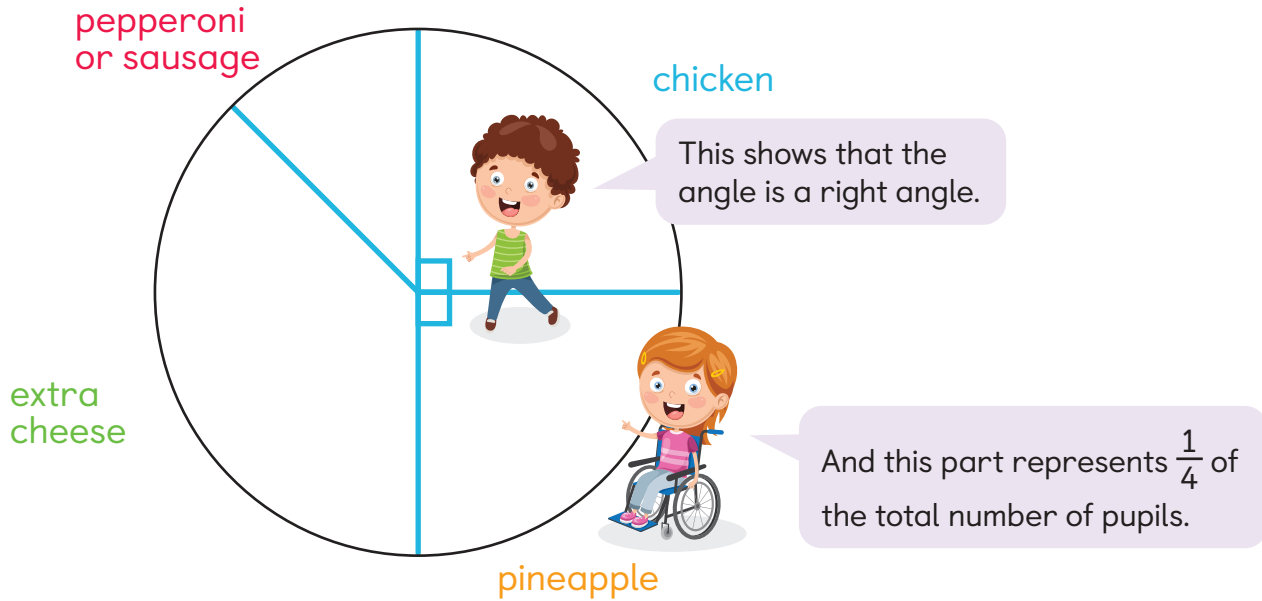
Together, , ,  and  draw a circle graph.

favourite pizza toppings



The pizza topping that is the most popular is represented by the biggest part of the circle.

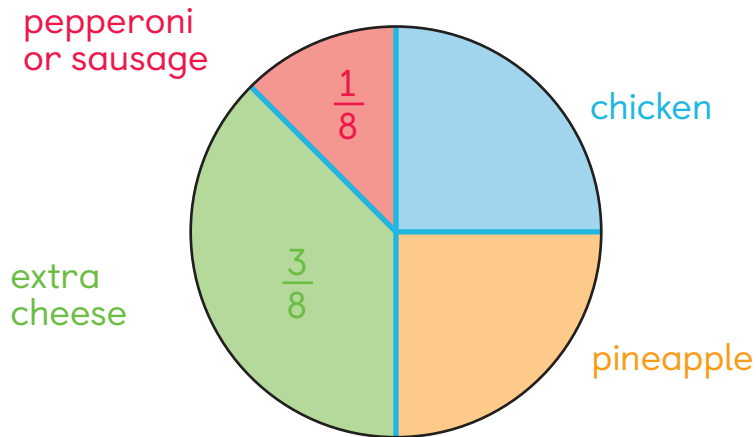
favourite pizza toppings



Maths Journal



favourite pizza toppings



Write down questions that can be answered using the circle graph.



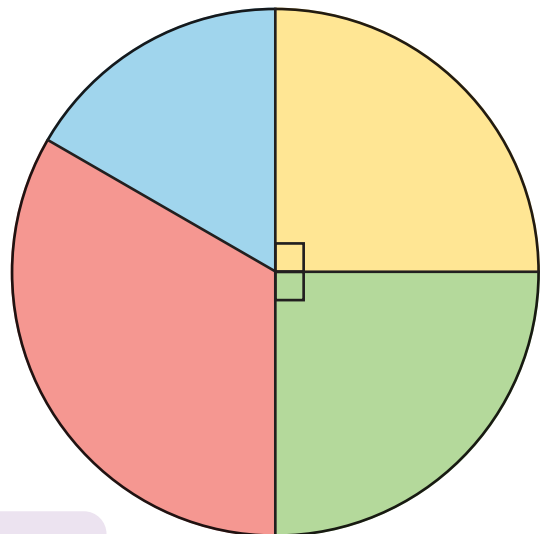
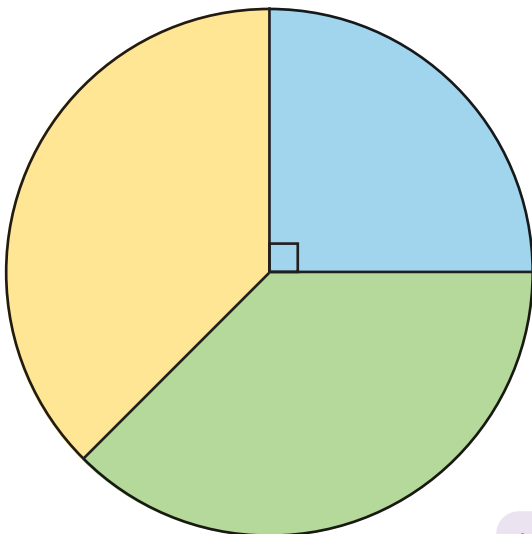
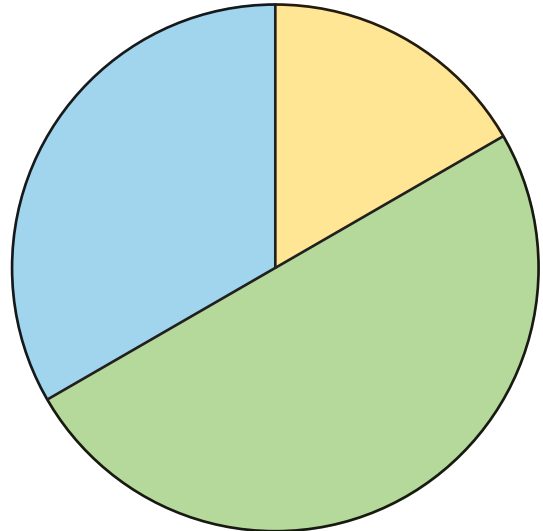
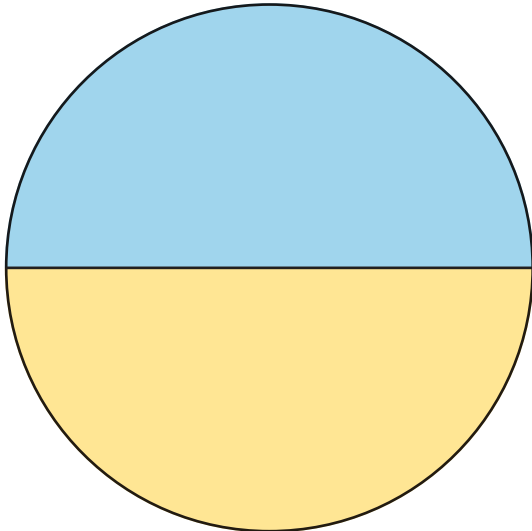
Which is the most popular pizza topping?

Can  's question be answered using the circle graph?



1

What fraction of each circle graph is shaded blue?

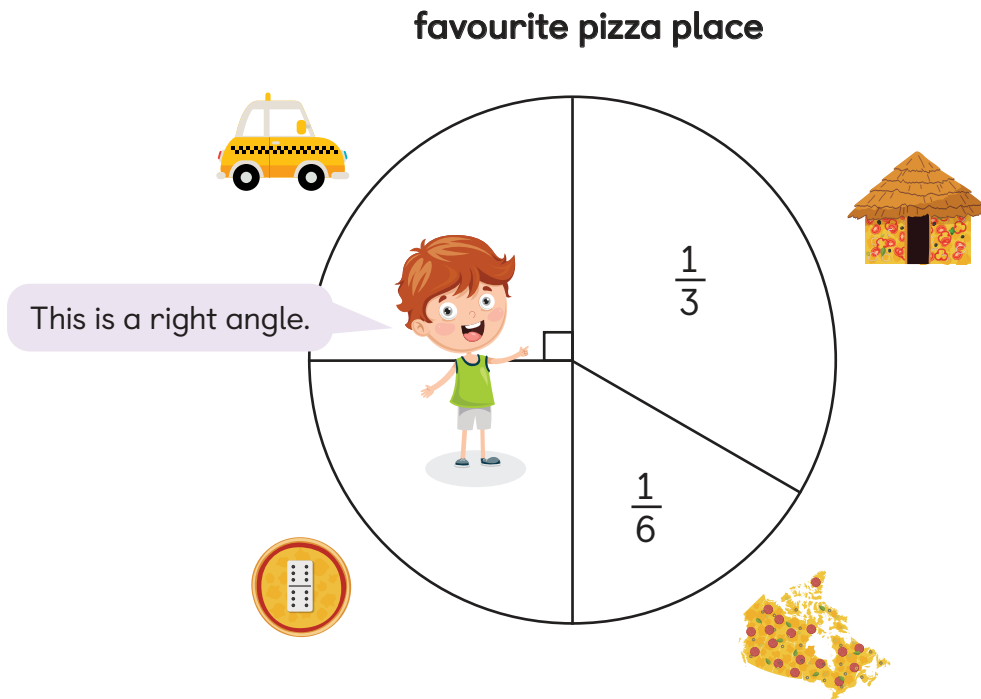


Use a protractor to help you.



2

A group of children were asked to choose their favourite pizza place. The circle graph shows their choices.



12 children picked  as their favourite pizza place.

What fraction of the group of children picked  as their favourite pizza place?

What fraction of the group of children picked  as their favourite pizza place?

How many children picked  as their favourite pizza place?

How many children picked  as their favourite pizza place?

How many children are there in this group?