## Year 6 – Summer Block 3 – Statistics – Read and Interpret Pie Charts

### About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

### National Curriculum Objectives:

Mathematics Year 6: (6S1) Interpret and construct pie charts and line graphs and use these to solve problems

### More Year 6 Statistics resources.

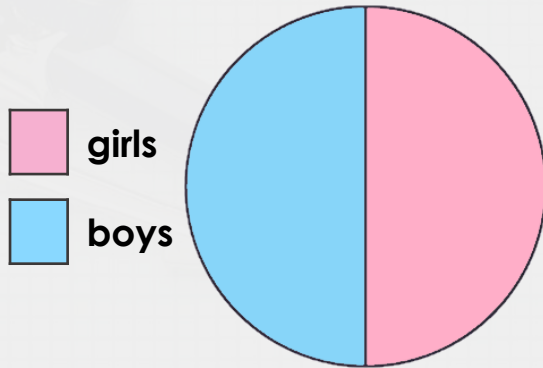### Did you like this resource? Don't forget to review it on our website.
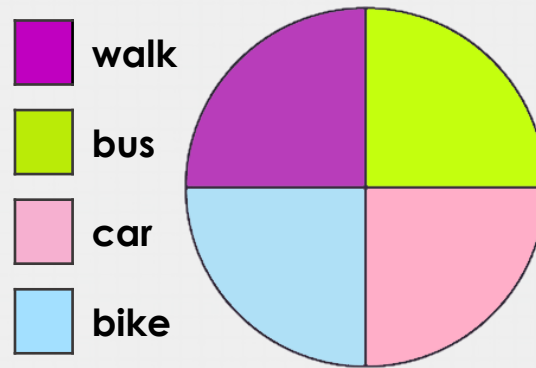
# Part 1: Fluency

# WALT Read and Interpret Pie Charts

*See my green notes to help you.*

**Interpret these simple pie charts.** *HINT: Think about what fraction of the circle each portion takes up.*

girls
boys

walk
bus
car
bike

dog
cat
rabbit

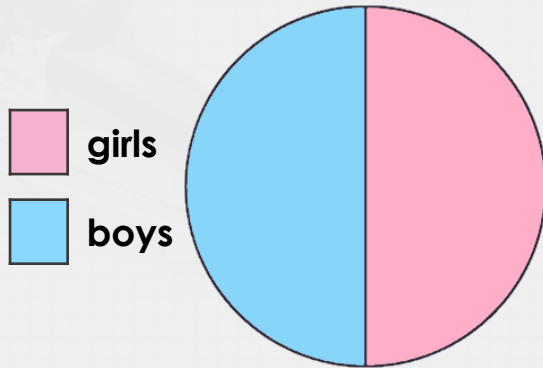If a class had 34 children in it, how many would be boys?

60 children were asked how they got to school. How many children travelled by car?
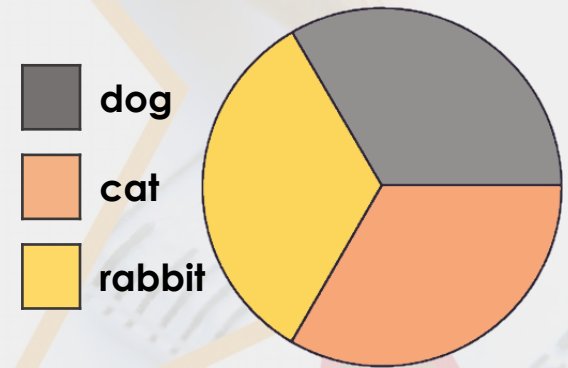
120 children were asked to choose a favourite pet. How many children chose a rabbit?
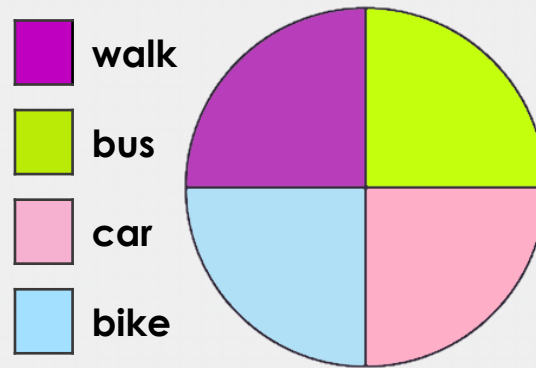
# Interpret these simple pie charts.
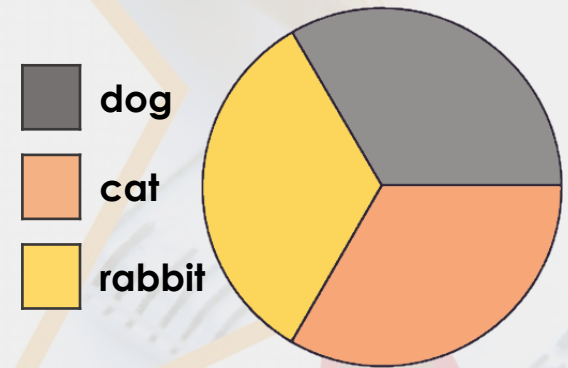
girls
boys

walk
bus
car
bike

dog
cat
rabbit

If a class had 34 children in it, how many would be boys? *1/2 are boys, so calculate 34÷2*

**17**

60 children were asked how they got to school. How many children travelled by car? *¼ of circle shaded for car – so calculate 60÷4*

**15**

120 children were asked to choose a favourite pet. How many children chose a rabbit? *1/3 of circle shaded for rabbit– so calculate 120÷3*

**40**

## What fraction of the pie chart represents people who chose dolphins?

## Favourite Animal
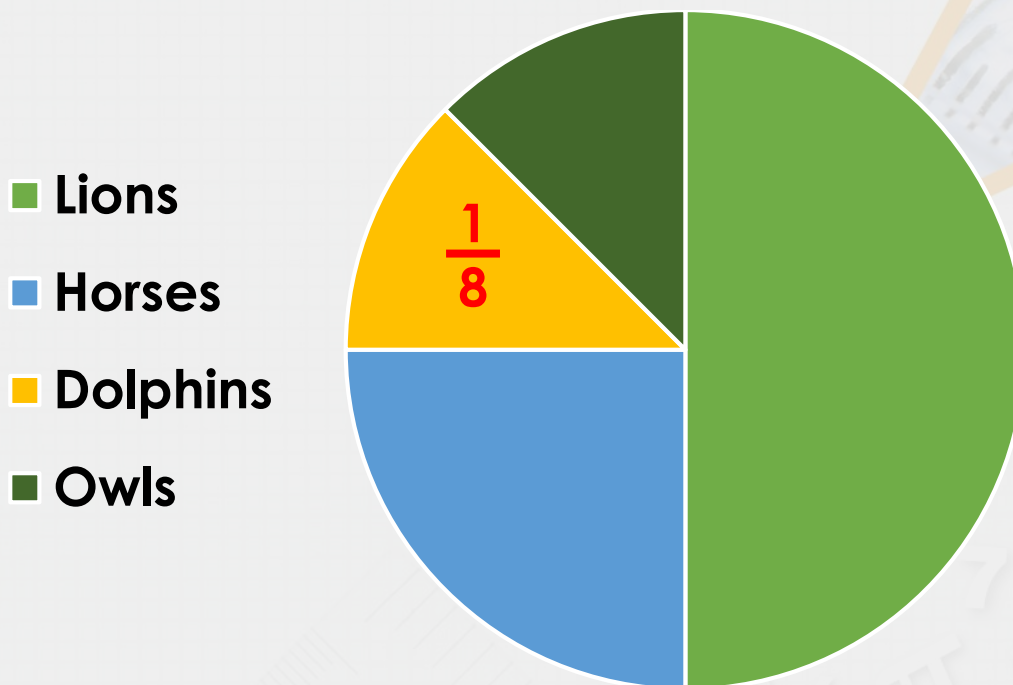
■ Lions

■ Horses

■ Dolphins

■ Owls

**What fraction of the pie chart represents people who chose dolphins?**

# Favourite Animal

- Lions
- Horses
- Dolphins
- Owls

$$\frac{1}{8}$$
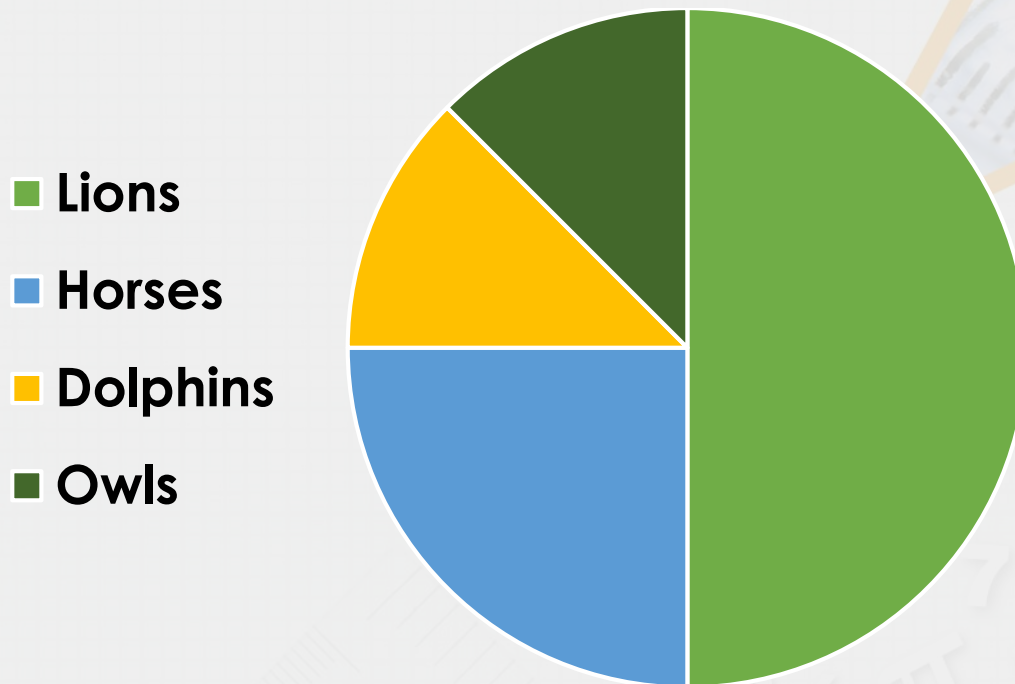
**The pie chart shows the votes of 360 people.**
**How many chose toast?** *HINT: 2/6 of circle represents toast.*
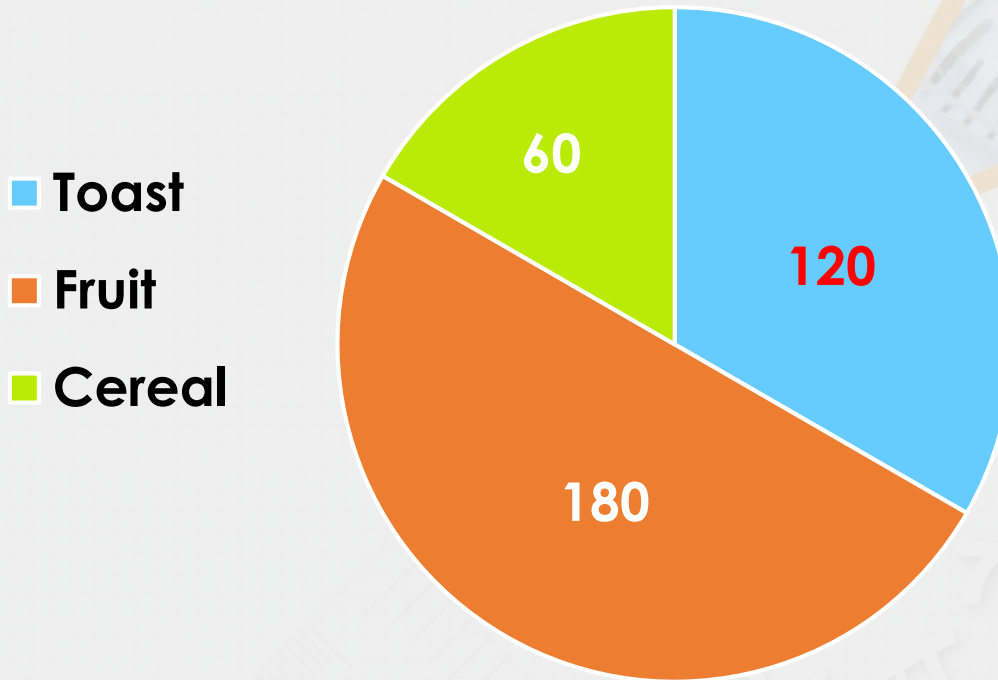
# Favourite Breakfast



■ **Toast**

■ **Fruit**

■ **Cereal**
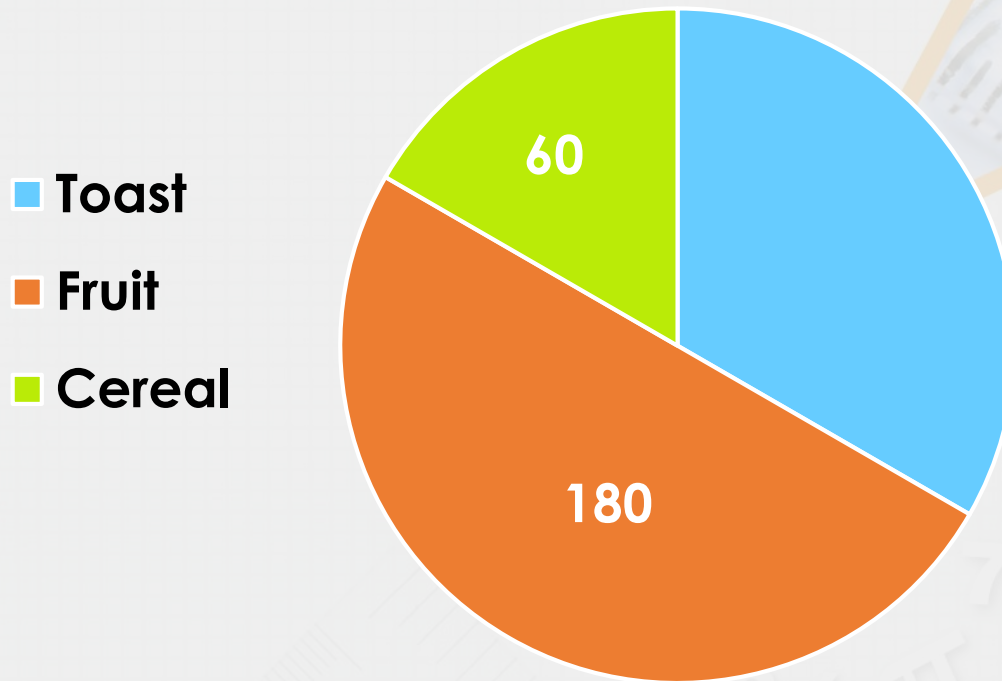
# The pie chart shows the votes of 360 people.
## How many chose toast? *(2/6 of 360 = (360÷6)X2) You could also look at the given numbers here to work out the answer faster. 60 represents 1/6, so you could double this. 180 represents 3/6, so you could divide this by 3 and then double that answer.*
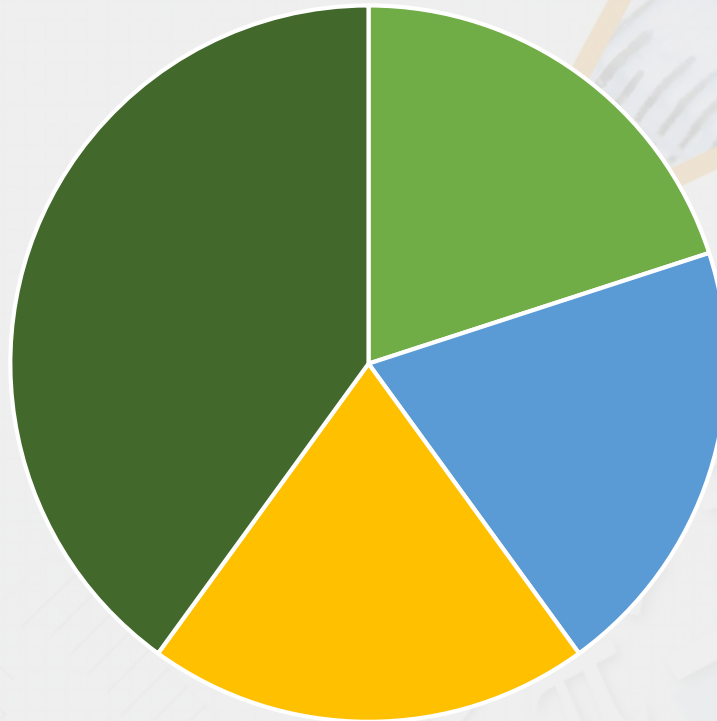
## Favourite Breakfast

■ Toast

■ Fruit

■ Cereal

60

120

180

500 people took part in a survey about sport.
How many people does each segment represent? *Hint: What fraction of the circle does each segment take up?*

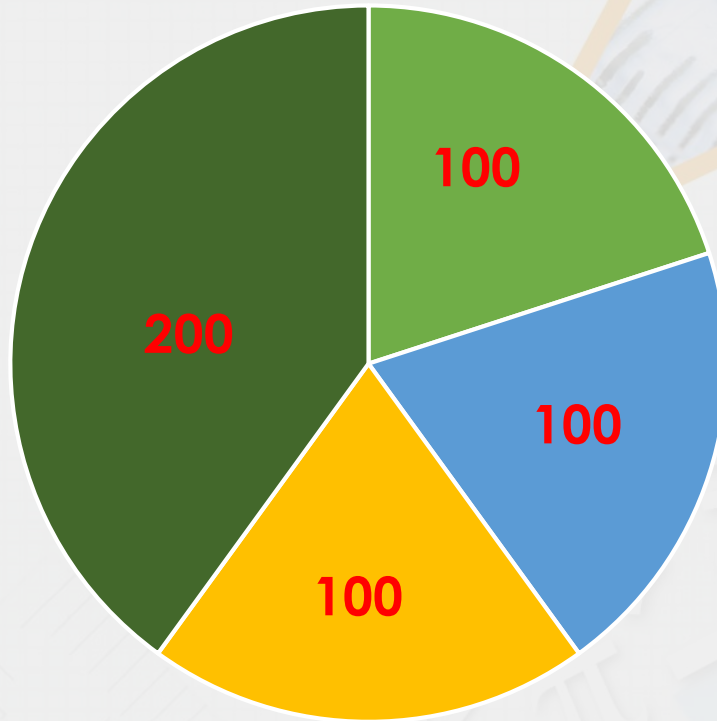## Favourite Sport

■ **Rugby**
■ **Swimming**
■ **Basketball**
■ **Football**

**500 people took part in a survey about sport.
How many people does each segment represent?** *We know this is correct because rugby, swimming and basket ball each take up 1/5 and 500÷5=100. Football takes up 2/5 and 100X2=200.*

## Favourite Sport
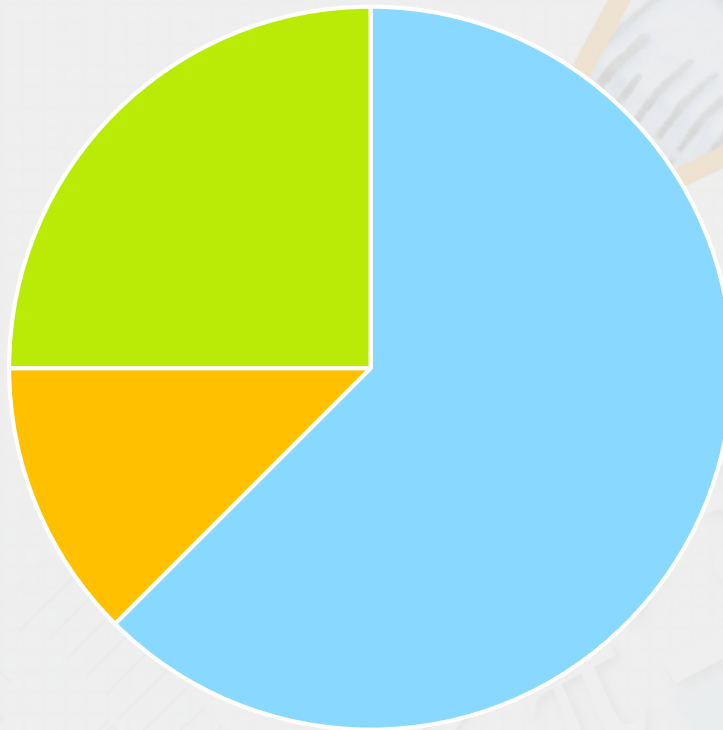


■ **Rugby**
■ **Swimming**
■ **Basketball**
■ **Football**

**How many people from the 480 surveyed chose each option?** *Hint: As before, consider what fraction of the circle is shaded for each meal. Dinner is ¼ - you can use this to help you work out the others.*

## Favourite Meal

■ **Breakfast**

■ **Lunch**

■ **Dinner**

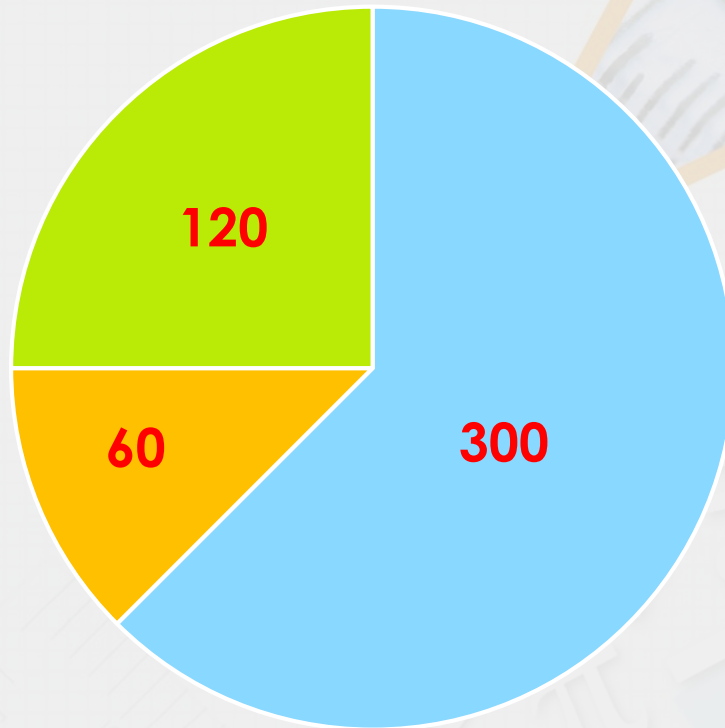**How many people from the 480 surveyed chose each option?**
*480÷4=120. ½ of that amount is 1/8 (60). Breakfast is 5/8, so 5X60=300.*

**Favourite Meal**



- ■ **Breakfast**
- ■ **Lunch**
- ■ **Dinner**

120

60

300

# Well done! It's over to you now.

Go to Part 2 and choose your challenge! Normal rules apply: page 1 will give you an easier challenge, page 2 will be about the same as what we've just practised and page 3 will be more of a stretch.

You only need to do the first set of questions on your chosen challenge – the 'A' questions. If you want extra practice, you can then do the 'B' questions of your chosen challenge page. When you finish, don't forget to mark your answers before sharing, so I can see where you need help.