23.06.20

WALT interpret pie charts

Notes and Guidance

Children will build on their understanding of circles to start interpreting pie charts. They will understand how to calculate fractions of amounts to interpret simple pie charts.

Children should understand what the whole of the pie chart represents and use this when solving problems.
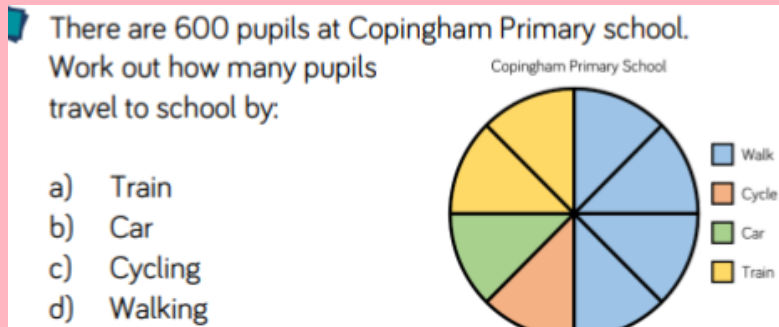
Mathematical Talk

What does the whole pie chart represent? What does each colour represent?

Do you recognise any of the fractions? How can you use this to help you?

What's the same and what's different about the favourite drinks pie charts?

What other questions could you ask about the pie chart?

There are 600 pupils at Copingham Primary school.
Work out how many pupils travel to school by:

Copingham Primary School

a) Train
b) Car
c) Cycling
d) Walking

☐ Walk
☐ Cycle
☐ Car
☐ Train

How do we solve this?

1) See what fraction the pie chart is divided into.

2) What fraction is each colour?

3) If 600 totals the whole pie chart, what does one segment equal?

$600 \div 8 = 75$

So $1/8 = 75$
Train = $2/8$
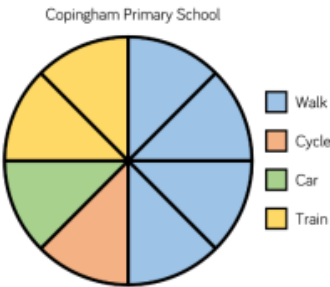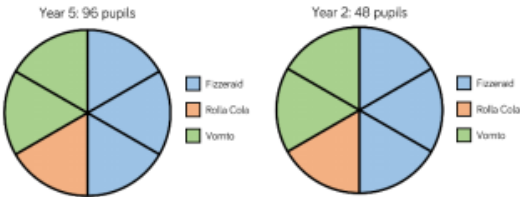
so , $75 \times 2 = 150$

150 pupils travelled by train.

Varied Fluency

There are 600 pupils at Copingham Primary school.
Work out how many pupils travel to school by:

Copingham Primary School

a) Train
b) Car
c) Cycling
d) Walking

Legend:
- Walk
- Cycle
- Car
- Train

Classes in Year 2 and Year 5 were asked what their favourite drink was. Here are the results:

Year 5: 96 pupils

Year 2: 48 pupils

Legend (both):
- Fizzeraid
- Rolla Cola
- Vomto

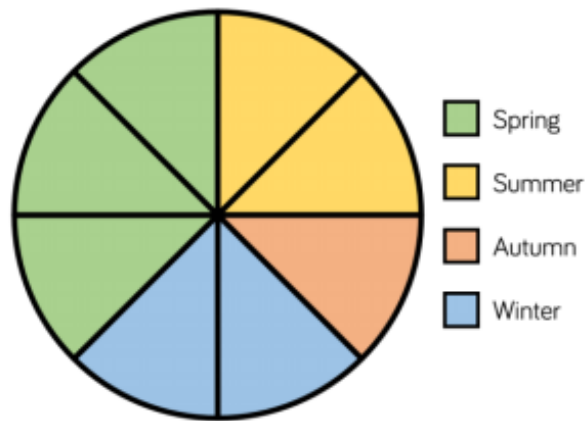What fraction of pupils in Year 5 chose Fizzeraid?
How many children in Year 2 chose Rolla Cola?
How many more children chose Vomto than Rolla Cola in Year 2?
What other questions could you ask?

In a survey people were asked what their favourite season of the year was. The results are shown in the pie chart below. If 48 people voted summer, how many people took part in the survey?
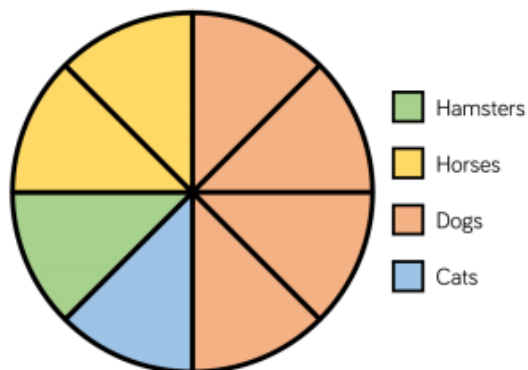
Our favourite time of year

Spring

Summer

Autumn

Winter

Explain your method.

96 people took part in this survey.

Our favourite pets

Hamsters

Horses

Dogs

Cats

How many people voted for cats?

$\frac{3}{8}$ of the people who voted for dogs were male. How many females voted for dogs?

What other information can you gather from the pie chart?

Write some questions about the pie chart for your partner to solve.