## Varied Fluency <br> Step 6: Pie Charts with Percentages

## National Curriculum Objectives:

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

## Differentiation:

Developing Questions to support using percentages to interpret pie charts using multiples of $10 \%$. Using up to 5 sets of data.
Expected Questions to support using percentages to interpret pie charts using multiples of $5 \%$. Using up to 5 sets of data.
Greater Depth Questions to support using percentages to interpret pie charts using any percentage. Using up to 5 sets of data and more than 1 pie chart in some questions.

## More Year 6 Statistics resources.

Did you like this resource? Don't forget to review it on our website.

1a． 50 children voted for their favourite crisps．Here are the results：

Favourite Crisps


1b． 50 children voted for their favourite lesson．Here are the results：

Favourite Lesson


How many voted for maths？

2a． 150 children were asked what pet they have．Here are the results：


How many more children have no pets than have cats？

3a． 50 children were asked their favourite sport．Here are the results：

Favourite Sports



How many chose each sport？
4a．If 5 people chose apples，how many chose strawberry？


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2b． 50 children were asked how they get to school．Here are the results：


How many more children walk than cycle？

3b． 200 people voted for their favourite ice cream flavour．Here are the results：


How many voted for each flavour？回

4b．If 20 people chose documentary，how many chose comedy？

Favourite Film Genre


5a. 60 children voted for their favourite crisps. Here are the results:

Favourite Crisps
 How many voted for beef?

5b. 120 children voted for their favourite lesson. Here are the results:

Favourite Lesson


How many voted for PE?
6b. 180 children were asked how they get to school. Here are the results:


How many more children walk than use a scooter?

7b. 200 people voted for their favourite ice cream flavour. Here are the results:

Favourite Ice Cream Flavour


How many voted for each flavour? E

8b. If 10 people chose documentary, how many chose comedy?

Favourite Film Genre



Pear (25\%)

■ Football (55\%)
$\square$ Netball (25\%)
$\square$ Cricket (10\%)
Rugby (5\%)
$\square$ Tennis (5\%)

8a. If 2 people chose apples, how many chose strawberry?
How many chose each sport?

Favourite Fruit

6a. 200 children were asked what pet they have. Here are the results:


How many more children have dogs than
7a. 120 children were a
favourite sport. Here are

9a. 50 children in Year 5 and 50 in Year 6 were asked their favourite flavour of crisps.

Favourite Crisps


How many chose ready salted?

10a. 200 children were asked what pets they have. How many more had no pets than had goldfish, hamsters or rabbits?

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How many chose each sport?

12a. If 2 people chose apple, how many chose banana?

## Favourite Fruit



9b. 200 children were asked to name their favourite subjects.

## Favourite Lesson



How many chose English or maths?

10b. 50 children in Year 5 and 50 in Year 6 were asked how they get to school. How many more children walk than get the bus?

Travel to School


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11b. 1,000 people voted for their favourite ice cream flavour. Here are the results:


How many voted for each flavour? W

12b. If 10 people chose documentary, how many chose comedy?


## Varied Fluency <br> Pie Charts with Percentages

## Varied Fluency

## Pie Charts with Percentages

## Developing

1a. 20
2a. 30
3a. Football - 20, Netball - 15, Cricket - 10, Rugby - 5
4a. 20

## Expected

5a. 9
6a. 60
7a. Football-66, Netball - 30, Cricket - 12, Rugby - 6, Tennis - 6
8a. 12

## Greater Depth

9a. 20
10a. 18
11a. Football-60, Netball - 60,
Cricket-12, Rugby - 20, Tennis - 6,
Gymnastics - 42
12a. 20

Developing
1b. 5
2b. 25
3b. Vanilla - 80, Chocolate - 80,
Strawberry - 20, Mint Choc Chip - 20
4b. 100
Expected
5b. 42
6b. 72
7b. Vanilla - 70, Chocolate - 70,
Strawberry - 40, Mint Choc Chip - 10,
Cherry - 10
8b. 100

## Greater Depth

9b. 44
10b. 15
11b. Vanilla-400, Chocolate - 350,
Strawberry - 30, Mint Choc Chip - 70,
Cherry - 60, Bubblegum - 90
12b. 52

