<u>Varied Fluency</u> <u>Step 6: Pie Charts with Percentages</u>

National Curriculum Objectives:

Mathematics Year 6: (6S1) <u>Interpret and construct pie charts and line graphs and use</u> 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.

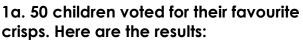
More Year 6 Statistics resources.

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



Pie Charts with Percentages

Pie Charts with Percentages



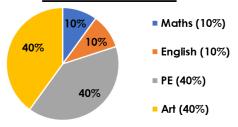




How many voted for salt and vinegar?

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

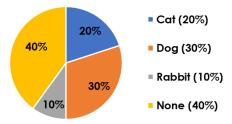
Favourite Lesson



How many voted for maths?

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

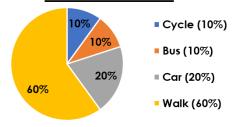
<u>Pets</u>



How many more children have no pets than have cats?

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

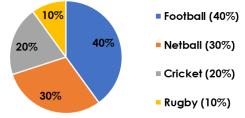
Travel to School



How many more children walk than cycle?

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

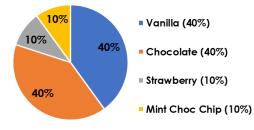
Favourite Sports



How many chose each sport?

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

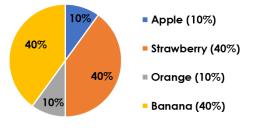
Favourite Ice Cream Flavour



How many voted for each flavour?

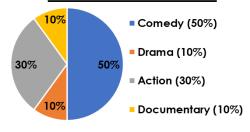
4a. If 5 people chose apples, how many chose strawberry?

Favourite Fruit



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

Favourite Film Genre

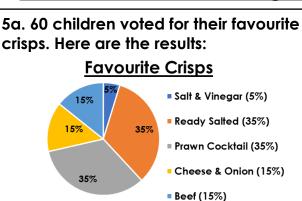


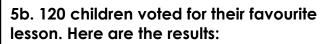




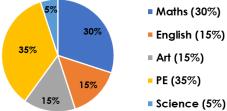
<u>Pie Charts with Percentages</u>

Pie Charts with Percentages

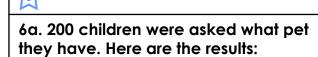




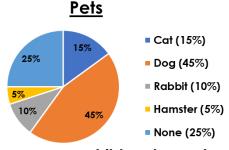




How many voted for PE?

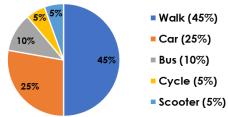


How many voted for beef?



6b. 180 children were asked how they get to school. Here are the results:

<u>Travel to School</u>

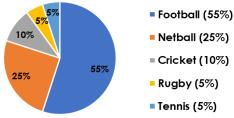


How many more children have dogs than cats?

How many more children walk than use a scooter?

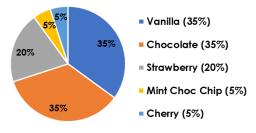
7a. 120 children were asked their favourite sport. Here are the results:





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

Favourite Ice Cream Flavour

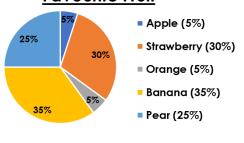


How many chose each sport?

How many voted for each flavour?

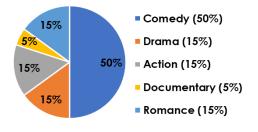
8a. If 2 people chose apples, how many chose strawberry?

awberry? <u>Favourite Fruit</u>



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

Favourite Film Genre

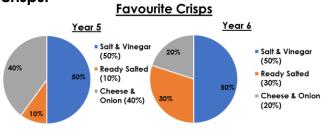




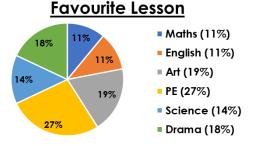
Pie Charts with Percentages

Pie Charts with Percentages

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



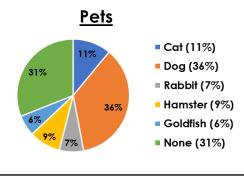
9b. 200 children were asked to name their favourite subjects.



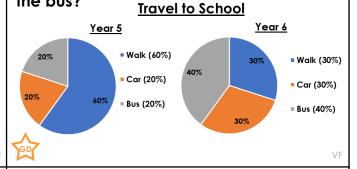
How many chose ready salted?

How many chose English or maths?

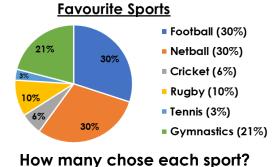
10a. 200 children were asked what pets they have. How many more had no pets than had goldfish, hamsters or rabbits?



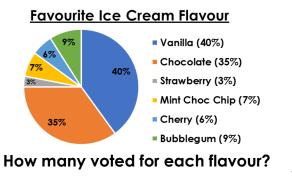
10b. 50 children in Year 5 and 50 in Year 6 were asked how they get to school. How many more children walk than get the bus?



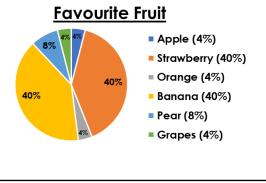
11a. 200 children were asked their favourite sport. Here are the results:



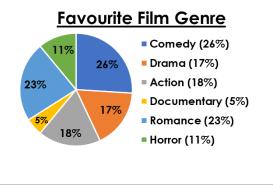
11b. 1,000 people voted for their favourite ice cream flavour. Here are the results:



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



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





<u>Varied Fluency</u> Pie Charts with Percentages

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<u>Developing</u>

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

