Year 6 – Summer Block 3 – Statistics – Pie Charts with Percentages

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 with Percentages

Look out for my notes in green.

Calculate these percentages of quantities.

Find 25% of:			
60	84	56	168

Find 10% of:			
70	150	690	125

Find 5% of:			
20	140	280	360

Calculate these percentages of quantities.

Find 25% of: *Remember, divide by 4!*

60	84	56	168
15	21	14	42

Find 10% of: *Remember, divide by 10!*

70	150	690	125
7	15	69	12.5

Find 5% of: *Remember, divide by 20 (or divide by 10 and halve your answer!)*

20	140	280	360
1	7	14	18

**60 children voted for their favourite colour.
Here are the results:**

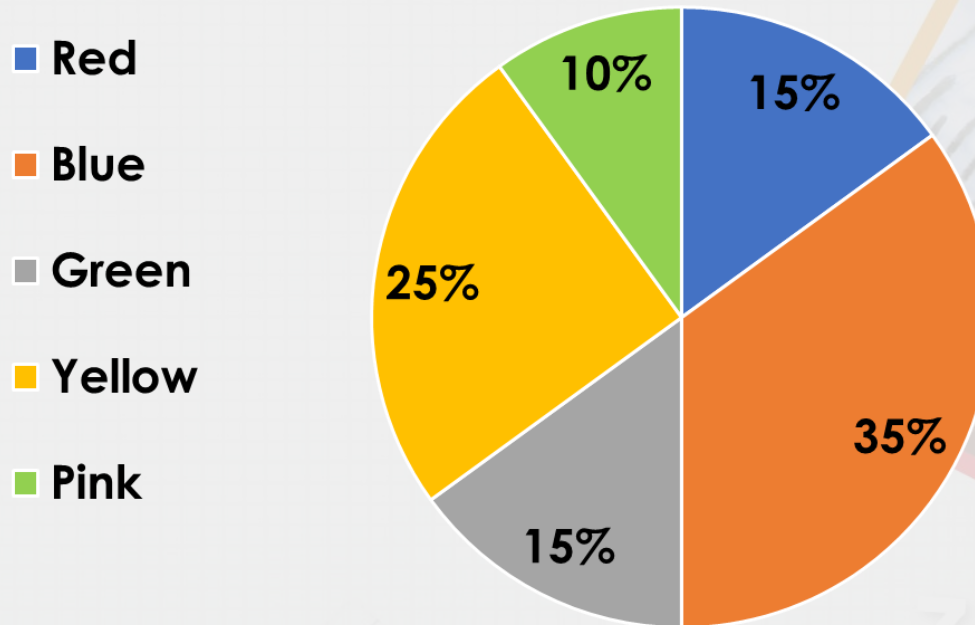## <u>Favourite Colour</u>

- Red
- Blue
- Green
- Yellow
- Pink
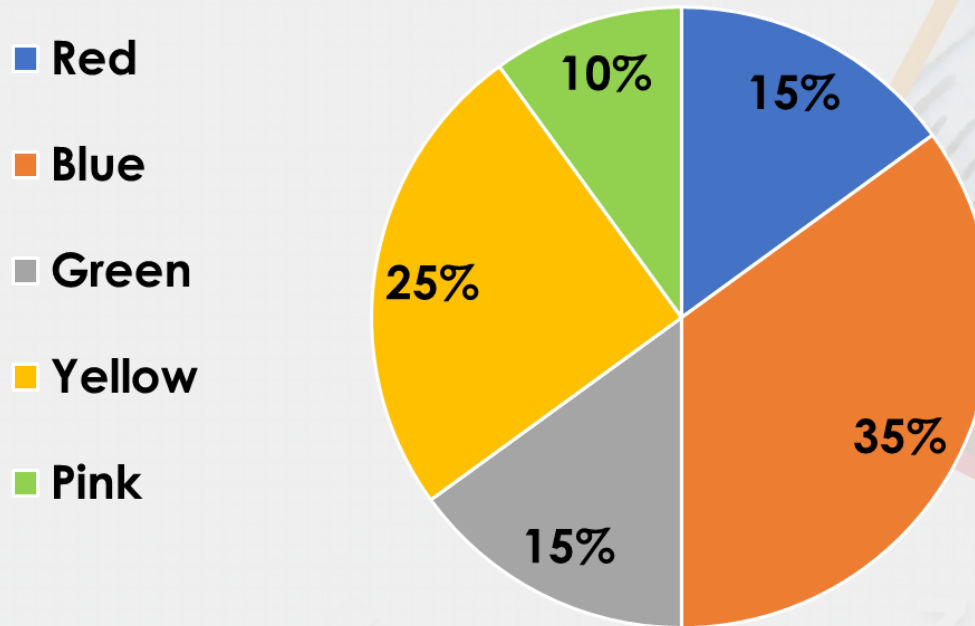
How many voted for red? *Remember, if you calculate 10% as a starting point, you can work out virtually any percentage from there.*

60 children voted for their favourite colour.
Here are the results:

Favourite Colour

- Red
- Blue
- Green
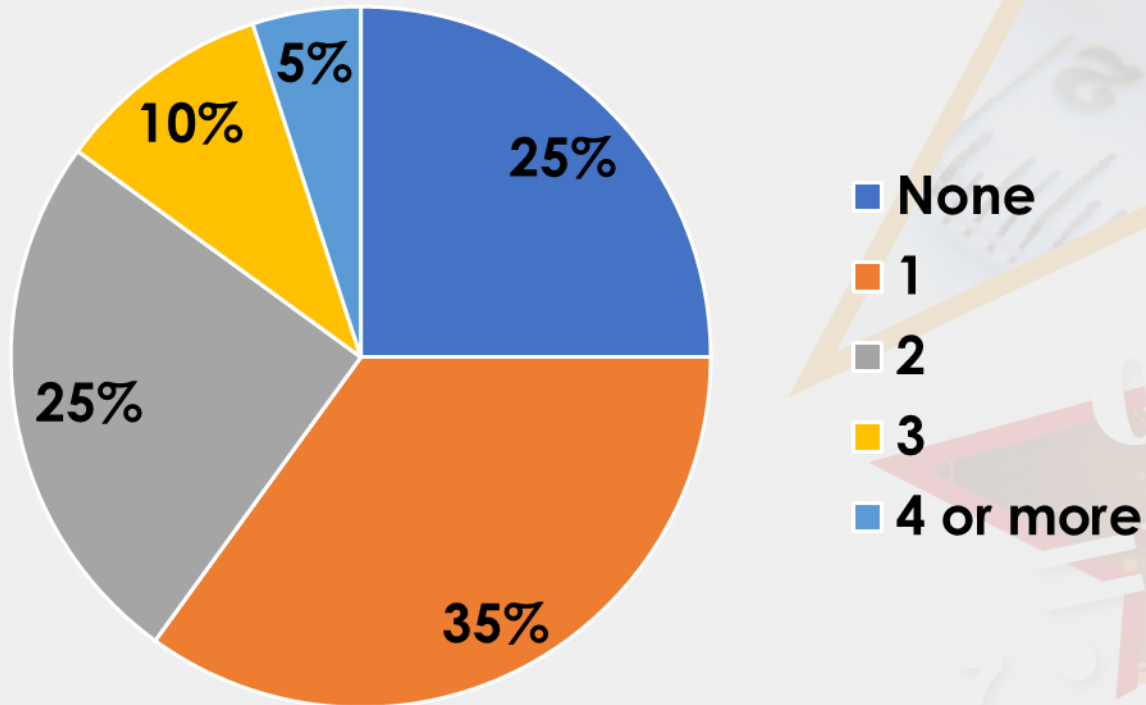- Yellow
- Pink

How many voted for red?

9 *(10%+5% if that makes it easier to calculate)*

200 children were asked how many siblings they have. Here are the results:

Number of siblings

Legend:
- None
- 1
- 2
- 3
- 4 or more

(Pie chart values: 25% None, 35% for 1, 25% for 2, 10% for 3, 5% for 4 or more)

How many more children have two siblings than three?

200 children were asked how many siblings they have. Here are the results:

Number of siblings

Legend:
- None
- 1
- 2
- 3
- 4 or more

Pie chart values: 25%, 35%, 25%, 10%, 5%

How many more children have two siblings than three?
30

120 people were asked their age.
Here are the results:

Ages

- 17 or under
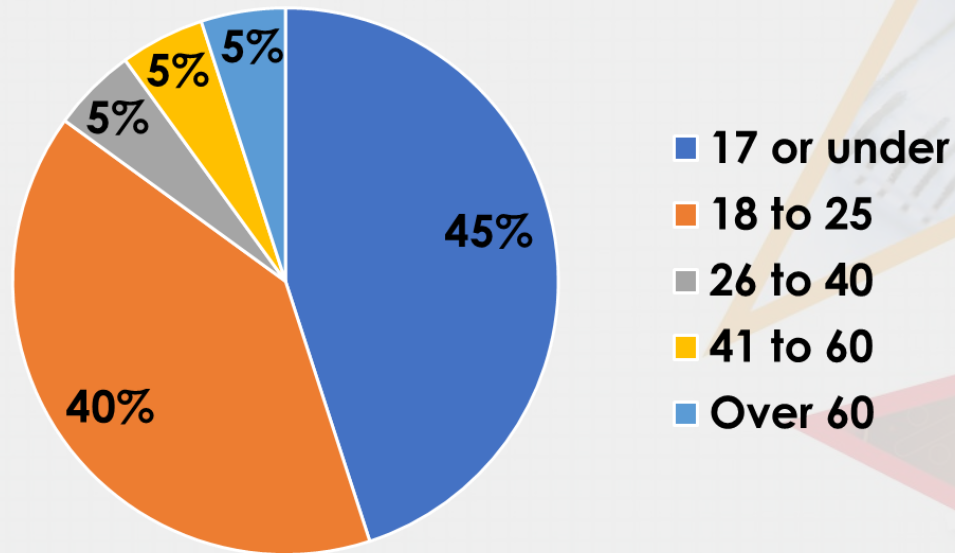- 18 to 25
- 26 to 40
- 41 to 60
- Over 60

45%
40%
5%
5%
5%

How many were in each age bracket?

120 people were asked their age.
Here are the results:

Ages

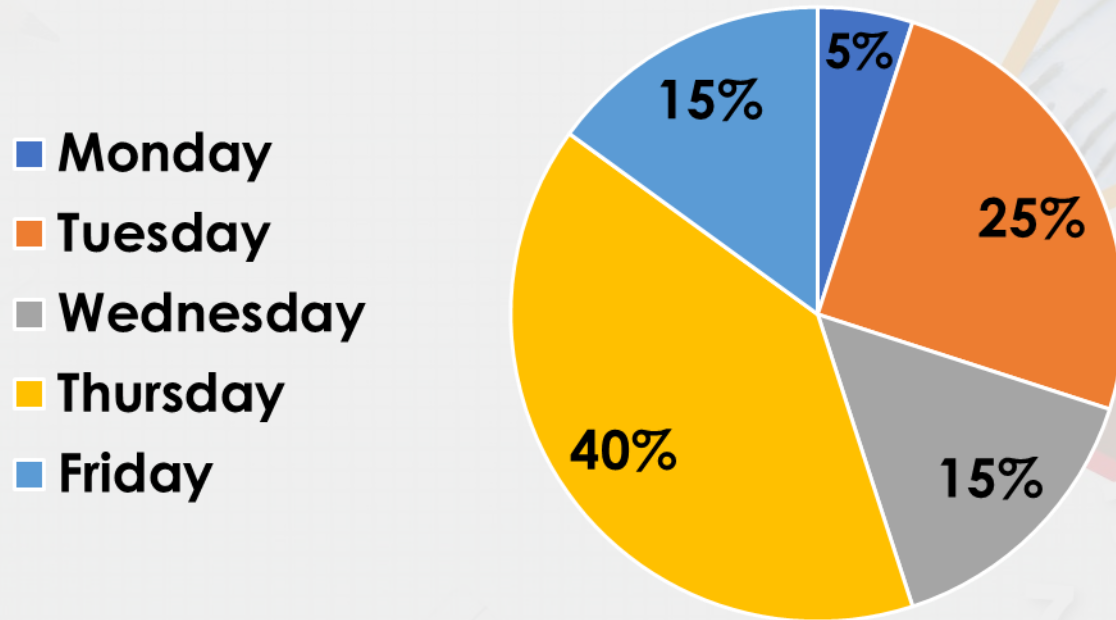- 17 or under
- 18 to 25
- 26 to 40
- 41 to 60
- Over 60

45%

40%

5%

5%

5%
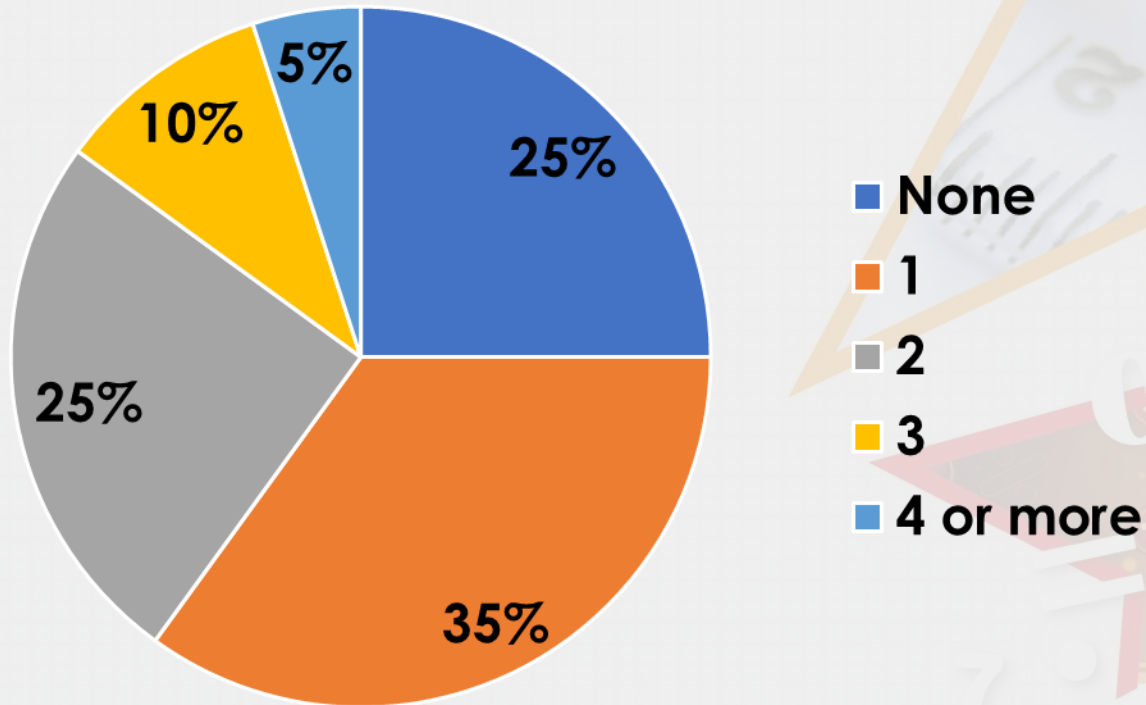
How many were in each age bracket?

17 or under – 54, 18 to 25 – 48, 26 to 40 – 6, 41 to 60 – 6, Over 60 – 6

If 30 people chose Friday, how many chose Thursday?

Favourite day at school
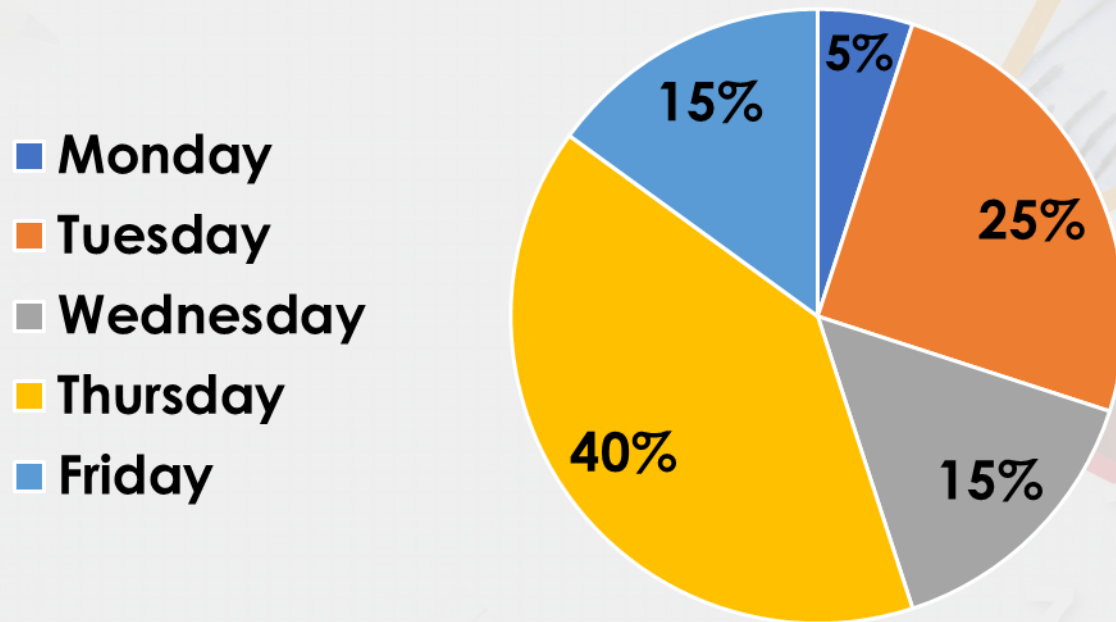

- ■ Monday
- ■ Tuesday
- ■ Wednesday
- ■ Thursday
- ■ Friday

If 30 people chose Friday, how many chose Thursday?

Favourite day at school

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday

5%
25%
15%
40%
15%

80 *(If 15% = 30, 10%=20, so 40%=80 (4X20))*

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.