Year 6 - Summer Block 3 - Statistics

Step 6: Pie Charts with Percentages



<u>Introduction</u>

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



<u>Introduction</u>

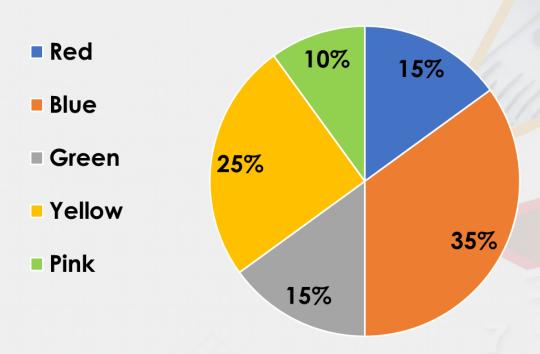
Calculate these percentages of quantities.

Find 25% of	•		
60	84	56	168
15	21	14	42
Find 10% of	•		
70	150	690	125
7	15	69	12.5
Find 5% of:			
20	140	280	360
1	7	14	18



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

Favourite Colour

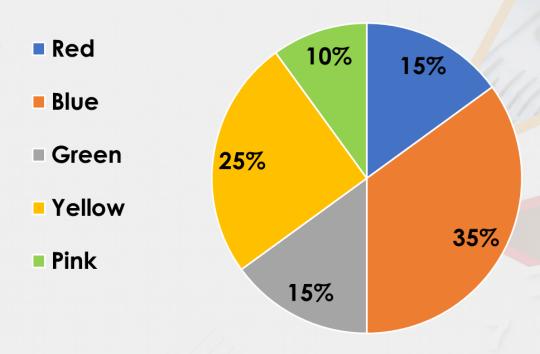


How many voted for red?



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

Favourite Colour



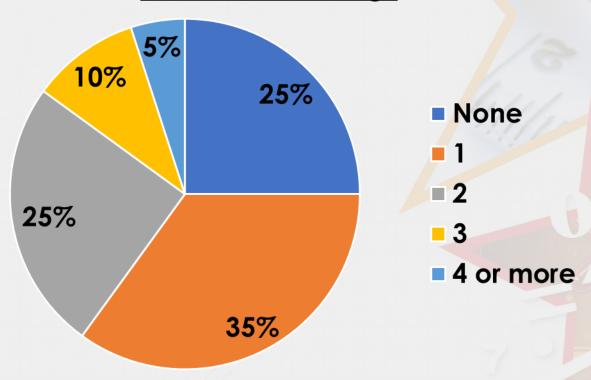
How many voted for red?





200 children were asked how many sib<mark>lings they have.</mark>
Here are the results:

Number of siblings

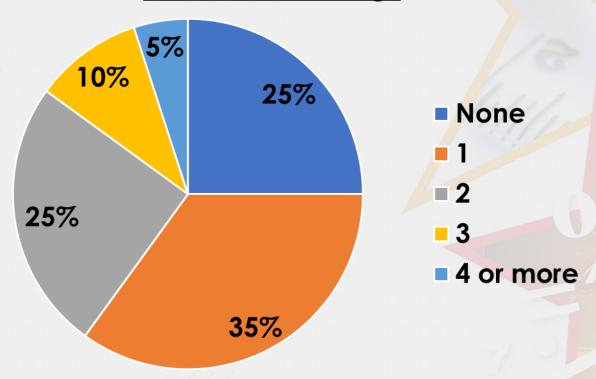


How many more children have two siblings than three?



200 children were asked how many sib<mark>lings they have.</mark>
Here are the results:

Number of siblings

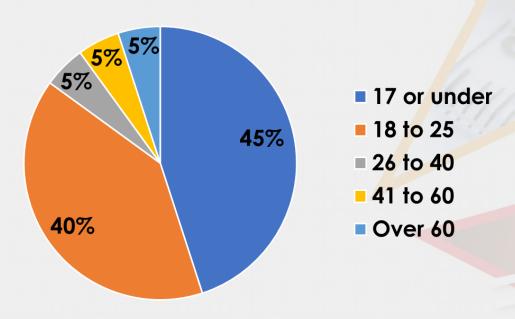


How many more children have two siblings than three?



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

Ages

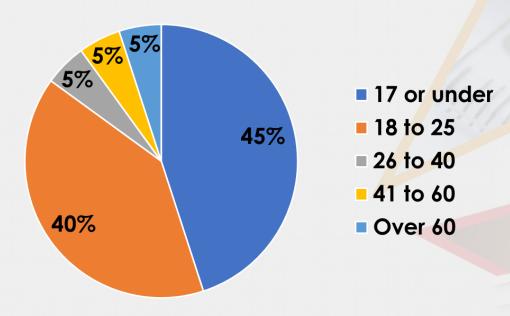


How many were in each age bracket?



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

<u>Ages</u>



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

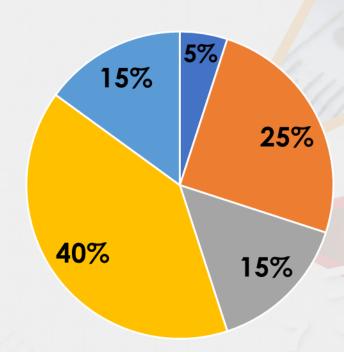


If 30 people chose Friday, how many chose Thursday?

Favourite day at school



- Tuesday
- Wednesday
- Thursday
- Friday



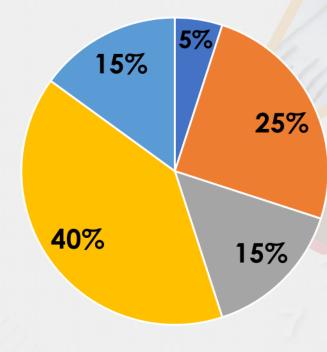


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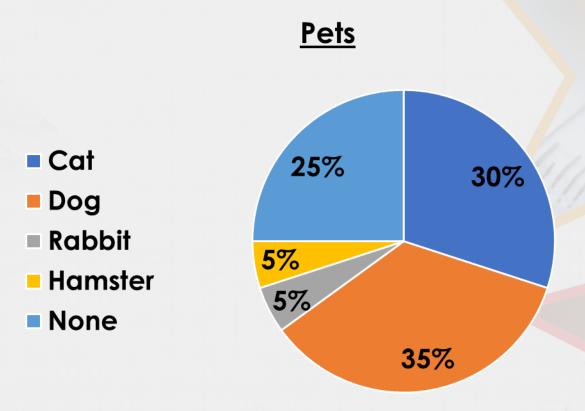


80



Problem Solving 1

Children were asked what pets they have. This was the result:



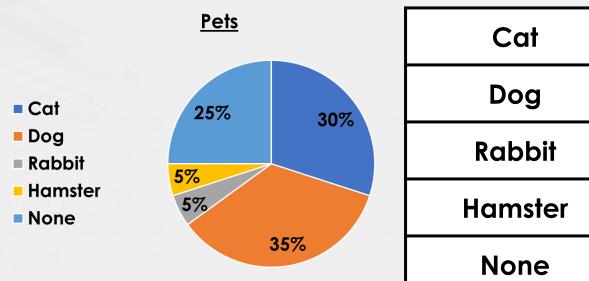
10 children have a hamster.

Use this information to help you convert the pie chart into a table.



Problem Solving 1

Children were asked what pets they have. This was the result:



Cat	60
Dog	70
Rabbit	10
Hamster	10
None	50

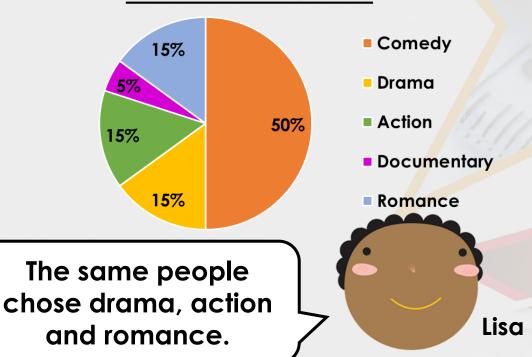
10 children have a hamster.

Use this information to help you convert the pie chart into a table.



Lisa is reading a pie chart about the favourite film genres of 60 children.

Favourite Film Genres



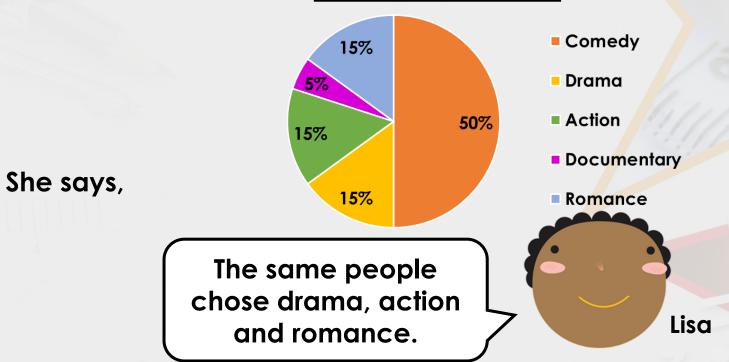
Is she right? Explain how you know.



She says,

Lisa is reading a pie chart about the favourite film genres of 60 children.

Favourite Film Genres

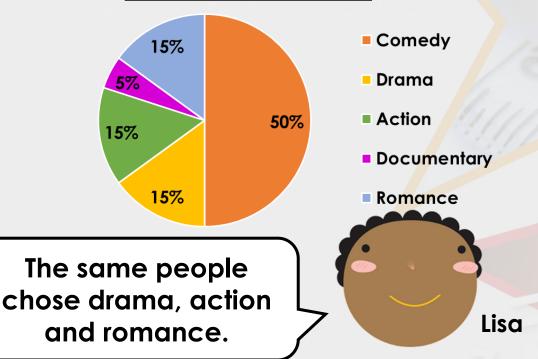


Is she right? Explain how you know. Lisa is not correct because...



Lisa is reading a pie chart about the favourite film genres of 60 children.

Favourite Film Genres



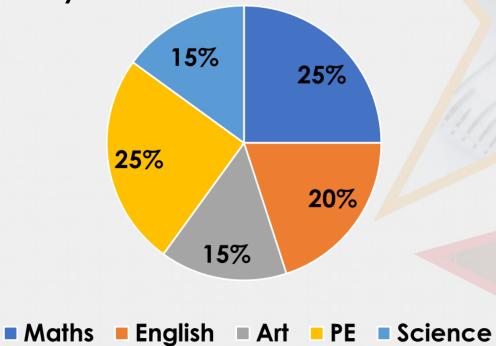
Is she right? Explain how you know. Lisa is not correct because the pie chart tells us the number of different people who voted for their favourite film genres. The numbers are the same, not the people.



She says,

What information can you get from this pie chart?

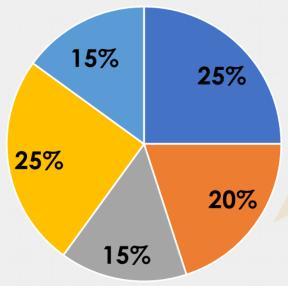
What does it not tell you?





What information can you get from this pie chart?

What does it not tell you?



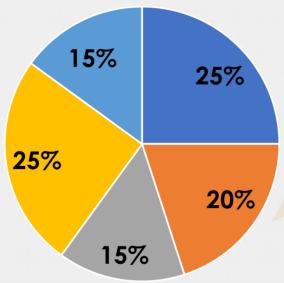
■ Maths ■ English ■ Art ■ PE ■ Science

You can tell that...
You cannot tell...



What information can you get from this pie chart?

What does it not tell you?



■ Maths ■ English ■ Art ■ PE ■ Science

You can tell that the same amount of people chose art and science. You cannot tell how many chose any subject because the chart doesn't give any information on how many people were asked.

