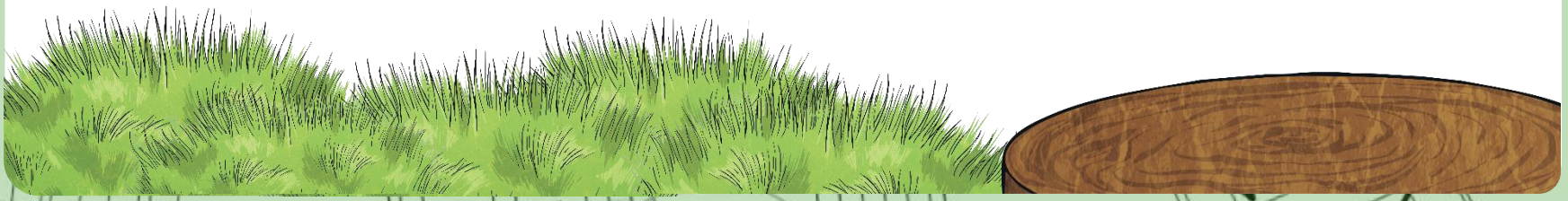
Class Pet Vote



The children in Class 6 have voted on which animal they would like as their class pet.

This table shows the number of votes for each animal.

Animal	Number of Votes
hamster	4
rabbit	10
budgie	7
guinea pig	12
fish	3
Total	**36**



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Converting to Degrees

There are 36 votes in total, so the whole pie chart needs to represent 36.

As we know that a full turn is 360°,
we know that each vote is worth
10° on the pie chart.

Can you explain how we know this?

Animal	Number of Votes
hamster	4
rabbit	10
budgie	7
guinea pig	12
fish	3
Total	**36**

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Converting to Degrees

Now that we know that one vote is worth 10°, we can convert the raw data into degrees, ready to draw the data on the pie chart.

We can do this by multiplying the number of votes for each animal by 10.

Animal	Number of Votes	Convert to Degrees
hamster	4	
rabbit	10	
budgie	7	
guinea pig	12	
fish	3	
Total	36	

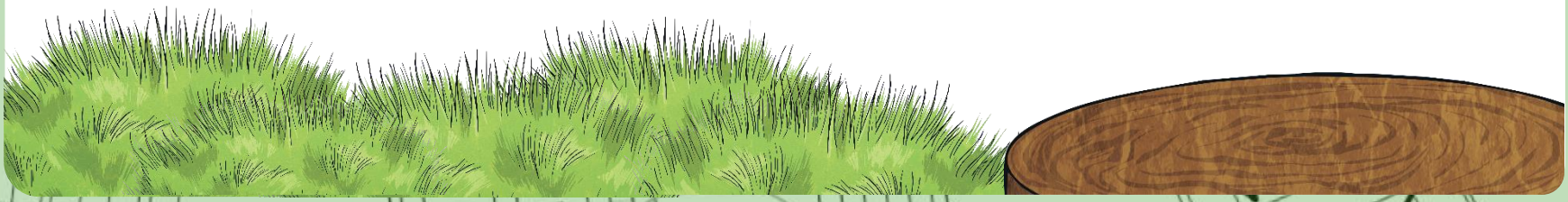


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Draw a Pie Chart

We have looked at representing data on a pie chart with segments of 10°.
Now, let's look at how to draw a pie chart on a blank circle.

Animal	Number of Votes	Convert to Degrees
hamster	4	4 × 10 = 40°
rabbit	10	10 × 10 = 100°
budgie	7	7 × 10 = 70°
guinea pig	12	12 × 10 = 120°
fish	3	3 × 10 = 30°
Total	**36**	**36 × 10 = 360°**

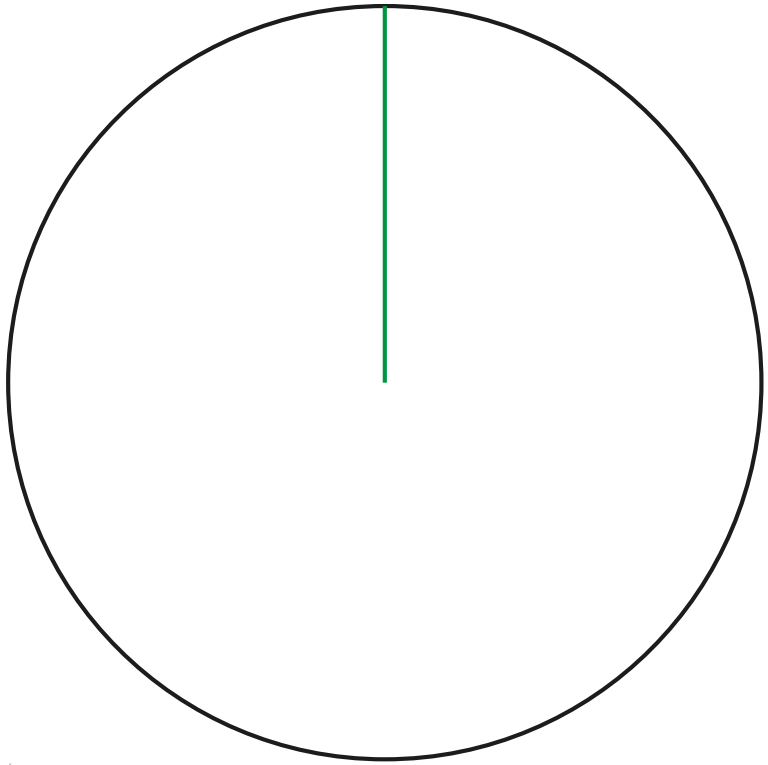


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Draw a Pie Chart

Begin by drawing a line from the top edge of the circle to the centre.
This is known as the radius of the circle.

Animal	Number of Votes	Convert to Degrees
hamster	4	4 × 10 = 40°
rabbit	10	10 × 10 = 100°
budgie	7	7 × 10 = 70°
guinea pig	12	12 × 10 = 120°
fish	3	3 × 10 = 30°
Total	**36**	**36 × 10 = 360°**

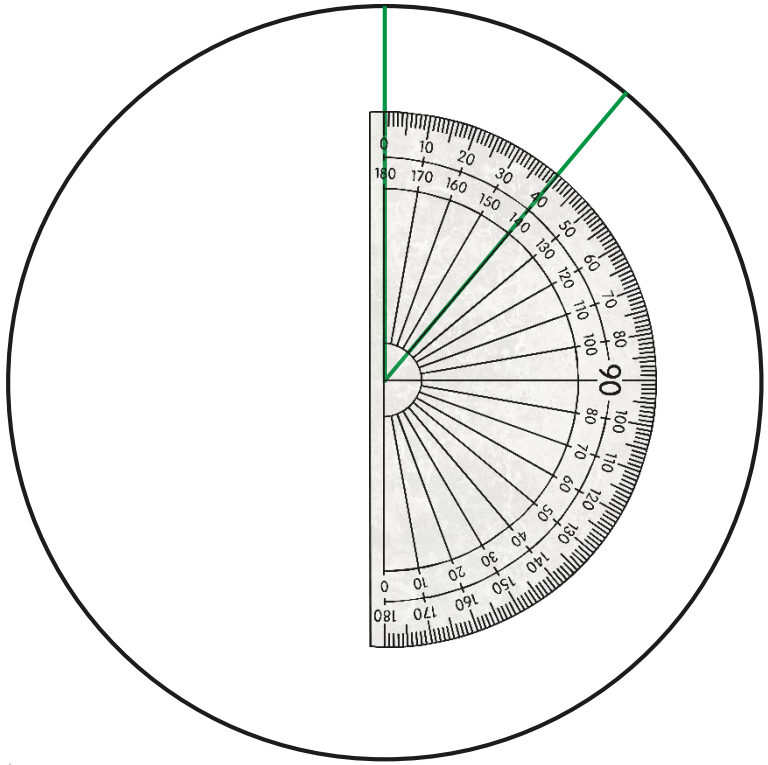


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Draw a Pie Chart

Use a protractor to measure the first angle. Looking at the table, we know that the first angle should be 40°.

Animal	Number of Votes	Convert to Degrees
hamster	4	4 × 10 = 40°
rabbit	10	10 × 10 = 100°
budgie	7	7 × 10 = 70°
guinea pig	12	12 × 10 = 120°
fish	3	3 × 10 = 30°
Total	**36**	**36 × 10 = 360°**

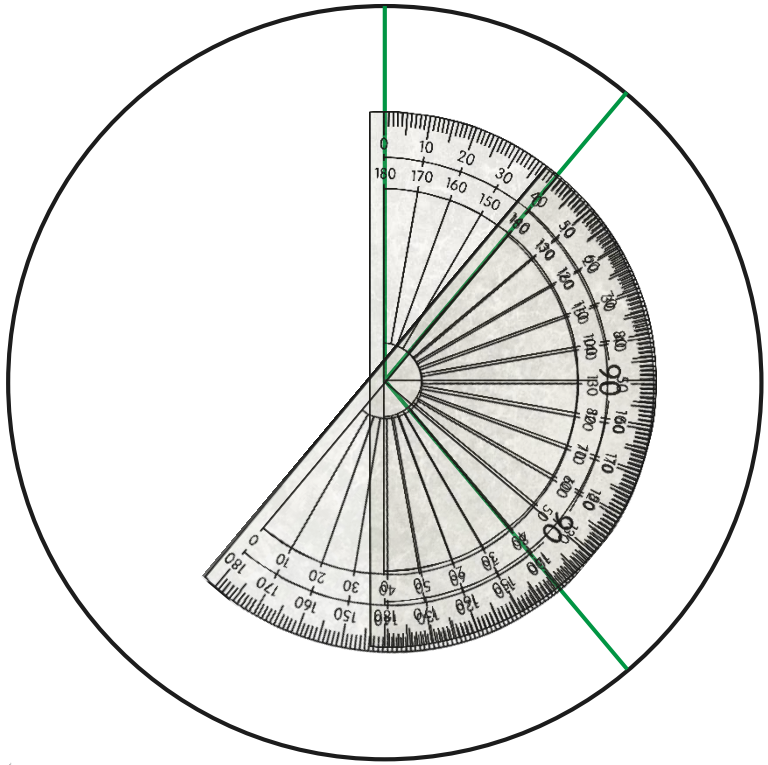


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Draw a Pie Chart

The next angle we need to draw represents the votes for a rabbit.
This angle is 100°.

Animal	Number of Votes	Convert to Degrees
hamster	4	4 × 10 = 40°
rabbit	10	10 × 10 = 100°
budgie	7	7 × 10 = 70°
guinea pig	12	12 × 10 = 120°
fish	3	3 × 10 = 30°
Total	**36**	**36 × 10 = 360°**



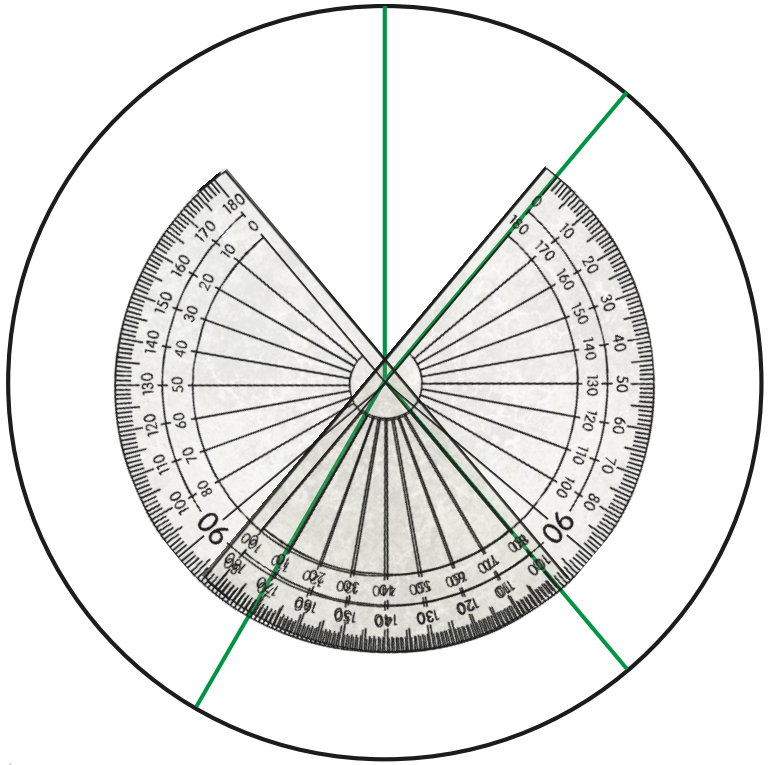
We measure this from the line we have just drawn, so we need to move the protractor onto the 40° line and measure the 100° angle from there.

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Draw a Pie Chart

We now need to measure a 70° angle to represent the votes for a budgie.
Remember to move the protractor onto the line you have just drawn.

Animal	Number of Votes	Convert to Degrees
hamster	4	4 × 10 = 40°
rabbit	10	10 × 10 = 100°
budgie	7	7 × 10 = 70°
guinea pig	12	12 × 10 = 120°
fish	3	3 × 10 = 30°
Total	**36**	**36 × 10 = 360°**

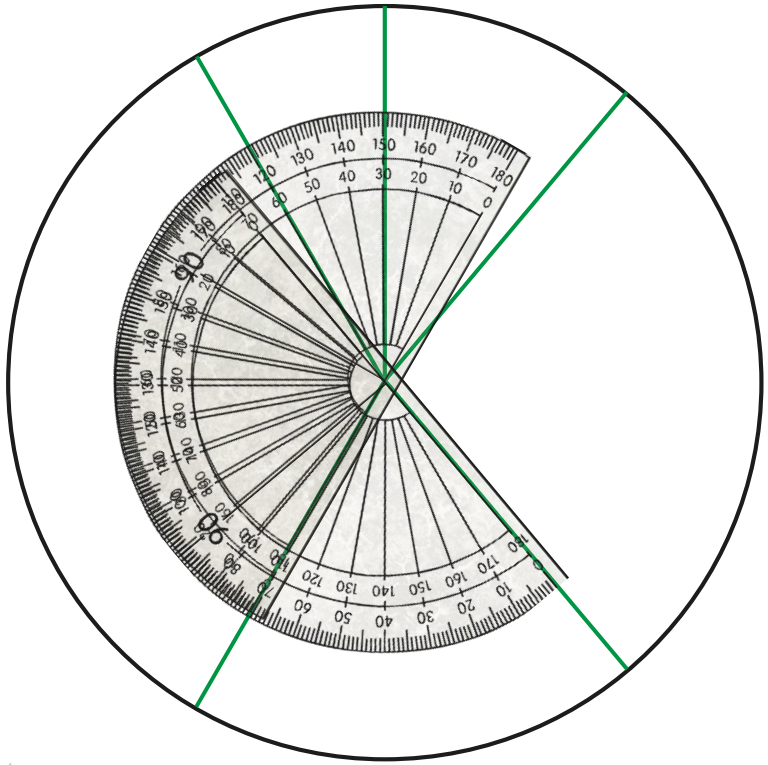


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Draw a Pie Chart

We can now move the protractor to measure the 120° angle for the guinea pig votes.

Animal	Number of Votes	Convert to Degrees
hamster	4	4 × 10 = 40°
rabbit	10	10 × 10 = 100°
budgie	7	7 × 10 = 70°
guinea pig	12	12 × 10 = 120°
fish	3	3 × 10 = 30°
Total	**36**	**36 × 10 = 360°**

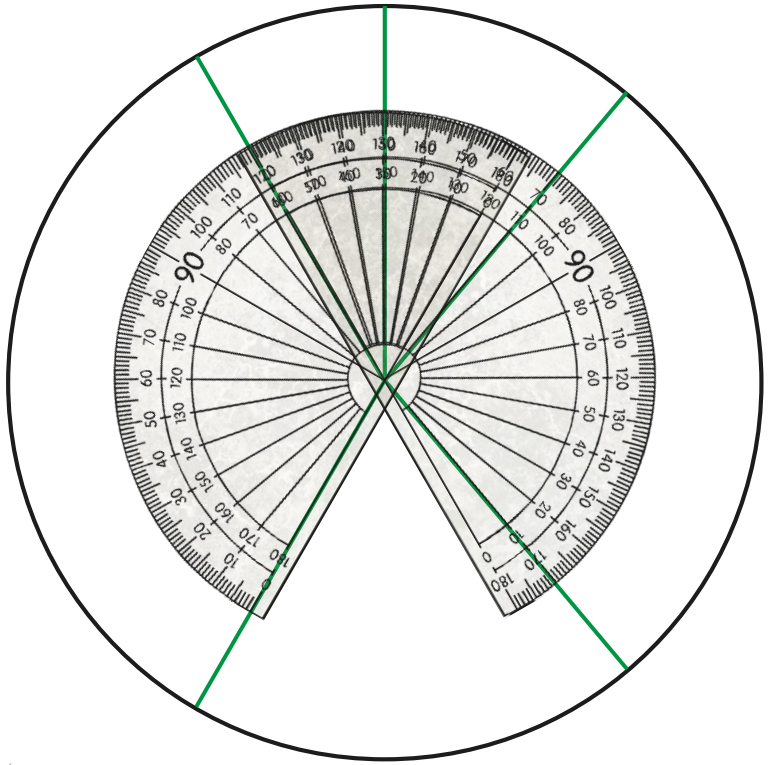


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Draw a Pie Chart

Finally, we will use the protractor to check that the remaining angle is 30° to represent the votes for a fish.

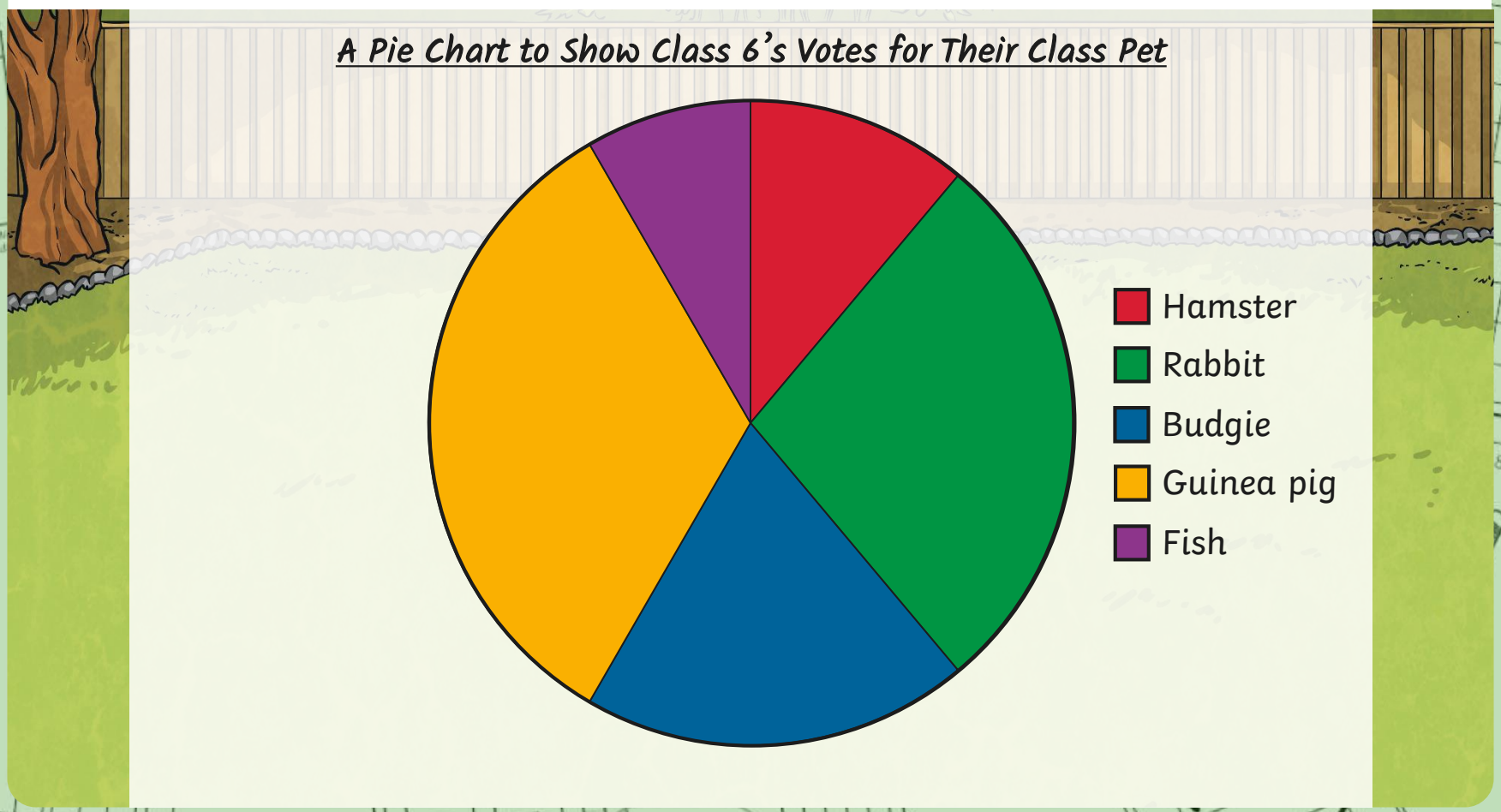
Animal	Number of Votes	Convert to Degrees
hamster	4	4 × 10 = 40°
rabbit	10	10 × 10 = 100°
budgie	7	7 × 10 = 70°
guinea pig	12	12 × 10 = 120°
fish	3	3 × 10 = 30°
Total	**36**	**36 × 10 = 360°**



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Draw a Pie Chart

We can now shade the segments and add a title and a key.



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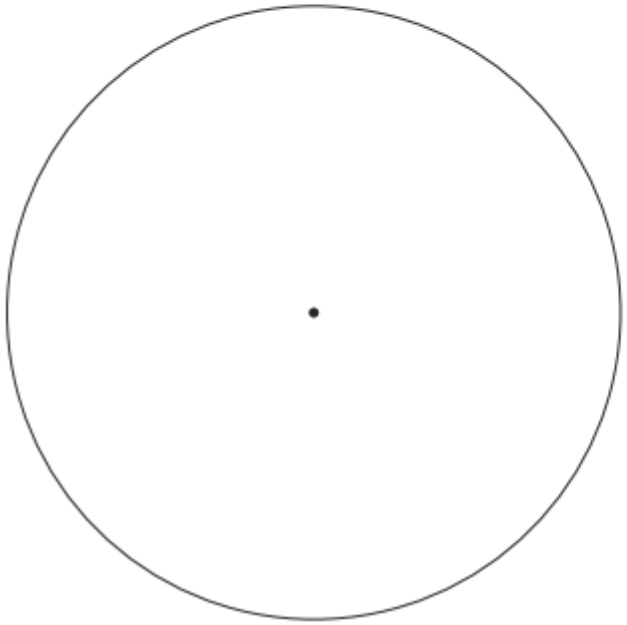
you do

This table shows the pets that the children in Year 6 have at home.

Complete the table to convert the data to degrees, then draw a pie chart to represent this data.

Pet	Number of Children	Convert to Degrees
cat	15	
rabbit	10	
gerbil	12	
tortoise	20	
spider	3	
Total		**360°**

Title: _____

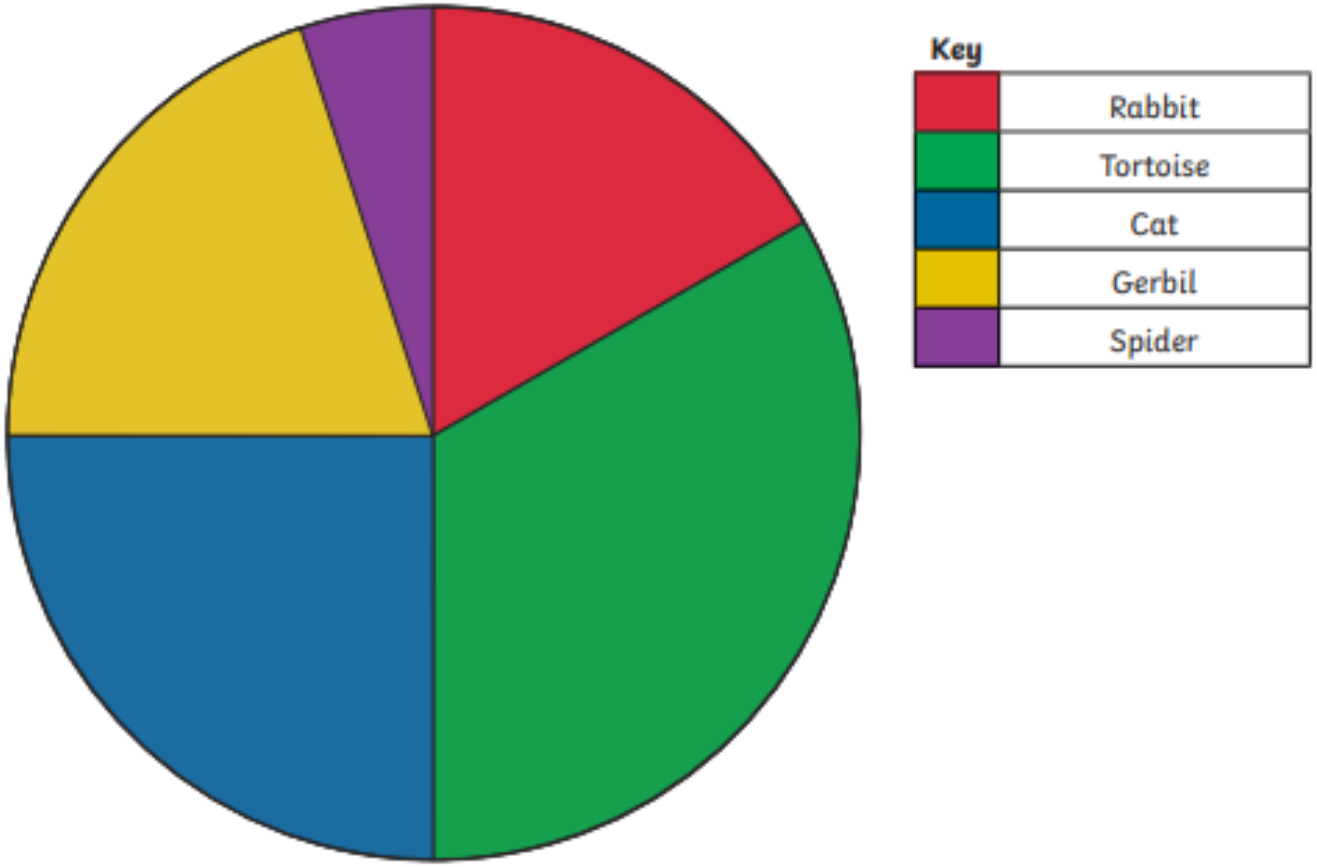


Complete the class pet pie chart

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Pet	Number of Children	Convert to Degrees
cat	15	60 ÷ 15 = 4, 360° ÷ 4 = 90°
rabbit	10	60 ÷ 10 = 6, 360° ÷ 6 = 60°
gerbil	12	60 ÷ 12 = 5, 360° ÷ 5 = 72°
tortoise	20	60 ÷ 20 = 3, 360° ÷ 3 = 120°
spider	3	60 ÷ 3= 20, 360° ÷ 20 = 18°
Total	**60**	**360°**

A Pie Chart to Show the Pets That Children in Class 6 Have at Home



we do

Pink Highlighter ready....let's mark!

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