

Starter:

Simplify the following fractions:

$$\frac{180}{360} = \qquad \frac{40}{360} =$$

$$\frac{120}{360} = \qquad \frac{60}{360} =$$

$$\frac{240}{360} = \qquad \frac{270}{360} =$$

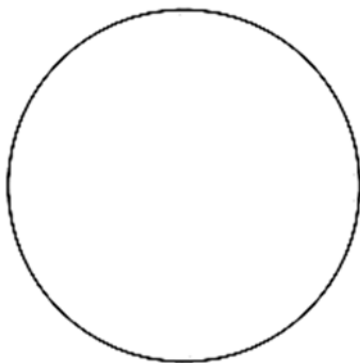
Top tips!

- Remember to calculate $\frac{360}{\text{number of items}}$
- Multiply the answer with each frequency to calculate the angles
- Label every sector as you construct the angles
- When interpreting a pie chart, measure the angle of a sector and write it as a fraction out of 360

Skills:

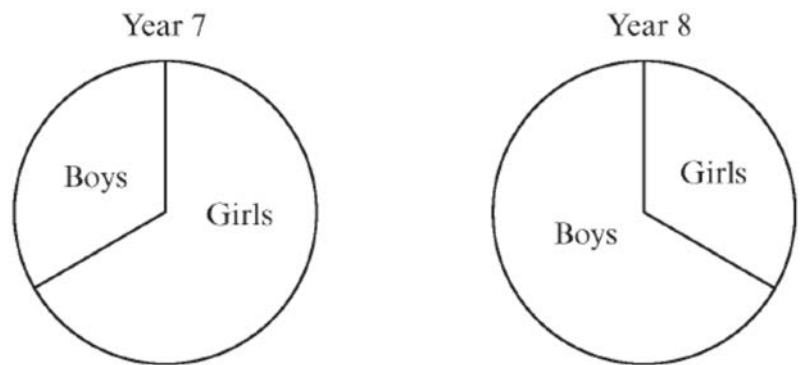
Fill the table below and use the information to draw a pie chart that shows 7A's favourite sport:

Sport	Frequency	Angle
Football	7	
Rugby	8	
Hockey	3	
Tennis	5	
Other	5	



Exam question:

The pie charts below represent the number of boys and number of girls in two year groups:



There are 150 pupils in Year 7.
 There are 40 more boys in Year 8 than there are in Year 7.
 How many girls, in total, are there in Year 7 and Year 8?

Assessment for Learning

QR code

Starter:

Simplify the following fractions:

$$\frac{180}{360} = \frac{1}{2}$$

$$\frac{40}{360} = \frac{1}{9}$$

$$\frac{120}{360} = \frac{1}{3}$$

$$\frac{60}{360} = \frac{1}{6}$$

$$\frac{240}{360} = \frac{2}{3}$$

$$\frac{270}{360} = \frac{3}{4}$$

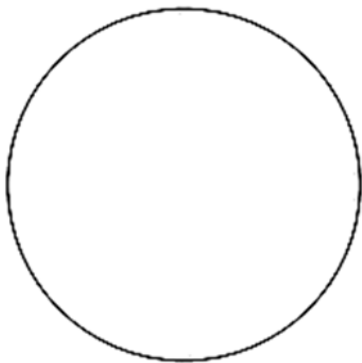
Top tips!

- Remember to calculate $\frac{360}{\text{number of items}}$
- Multiply the answer with each frequency to calculate the angles
- Label every sector as you construct the angles
- When interpreting a pie chart, measure the angle of a sector and write it as a fraction out of 360

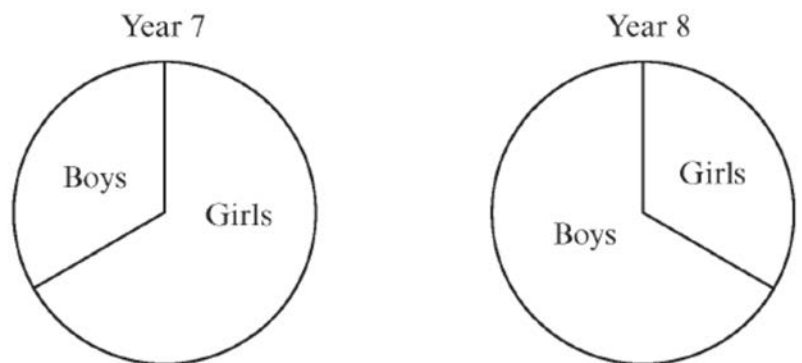
Skills:

Fill the table below and use the information to draw a pie chart that shows 7A's favourite sport:

Sport	Frequency	Angle
Football	7	90°
Rugby	8	103°
Hockey	3	39°
Tennis	5	64°
Other	5	64°

**Exam question:**

The pie charts below represent the number of boys and number of girls in two year groups:



There are 150 pupils in Year 7.
There are 40 more boys in Year 8 than there are in Year 7.
How many girls, in total, are there in Year 7 and Year 8?

Year 7:

$$\text{Boys} = \frac{1}{3} \text{ of } 150 = 50, \text{ Girls} = \frac{2}{3} \text{ of } 150 = 100$$

Year 8:

$$\text{Boys} = 40 + 50 = 90 \left(\frac{2}{3}\right), \text{ Girls} = 45 \left(\frac{1}{3}\right)$$

$$\text{All the girls} = 100 + 45 = 145$$

Assessment for Learning

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