

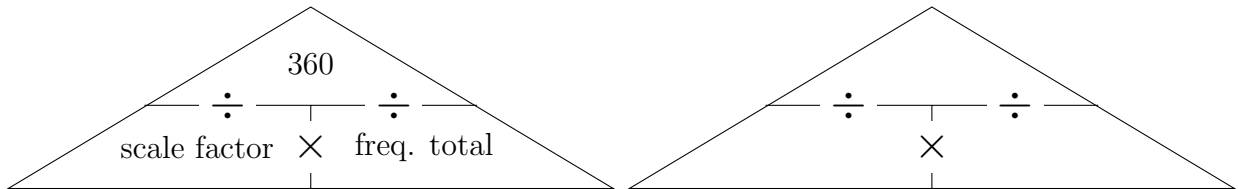
1. All year 8 were asked to vote for an end of year trip.

The table shows information about their choices.

Trip	Number of Students	angle	bearing
Ice skating	19		← 000°
Theme Park	63		← .....°
Water World	98		← .....°
total →		× → 360°	← 360°

Draw an accurate pie chart to show the information in the table.

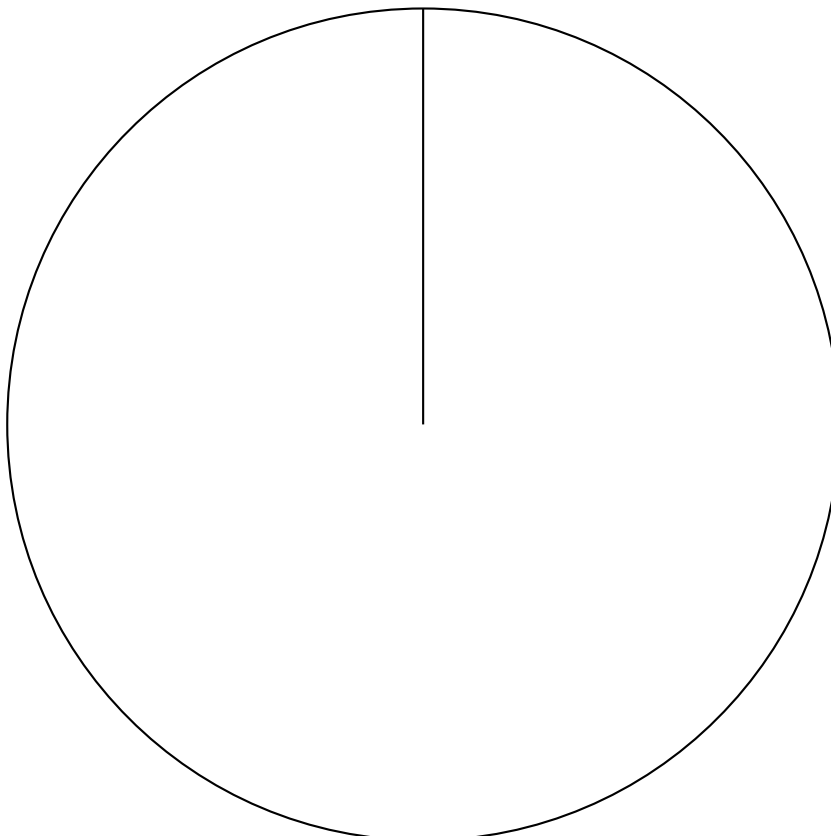
(i) Work out the scale factor. {Use the empty proportional triangle if it helps you.}



(ii) Calculate the angles.

(iii) Calculate the bearings and draw the sectors. {Bearings help with accuracy}

(iv) Label the sectors.

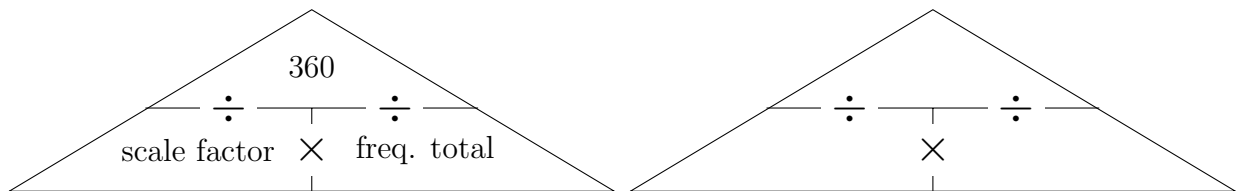


2. Taylor asked 30 people to choose one pudding from her list.

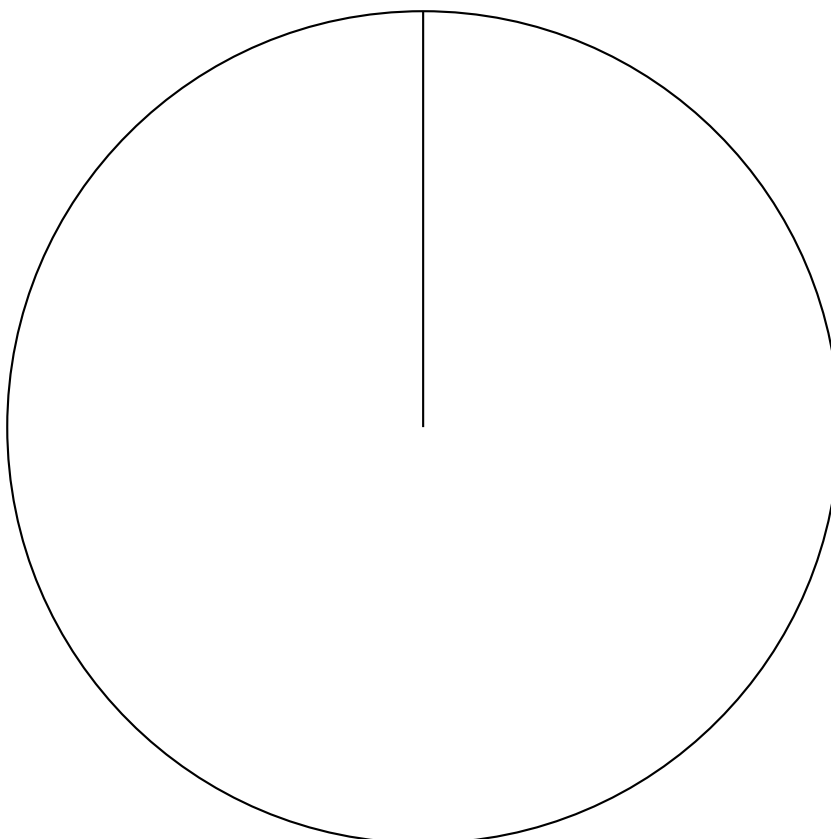
Here are her results.

pudding	frequency	angle	bearing
fruit	8		← 000°
sponge	19		← .....°
yogurt	3		← .....°
total →		× → 360°	← 360°

Draw an accurate pie chart to show her results. (i) Work out the scale factor. {Use the empty proportional triangle if it helps you.}



- (ii) Calculate the angles.
- (iii) Calculate the bearings and draw the sectors. {Bearings help with accuracy}
- (iv) Label the sectors.

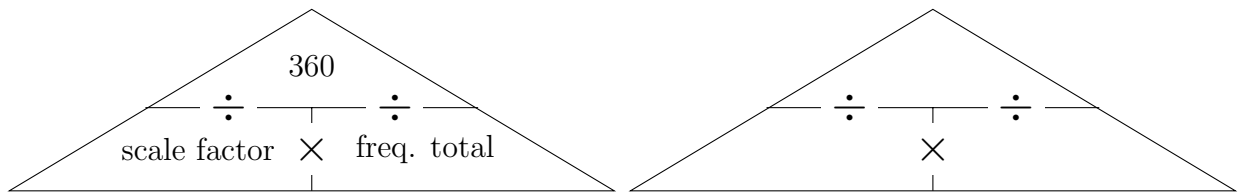


3. 90 interviewers were asked people to name the first team sport they thought of. Here are the sports they named.

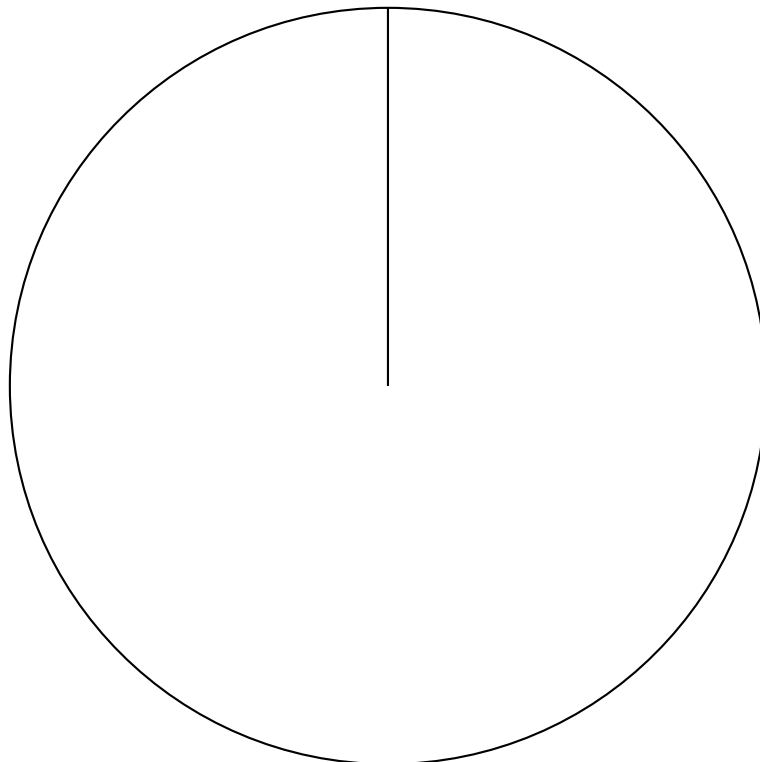
	Basketball	Cricket	Football	Rugby	Total
Frequency	19	17	34	20	
Angle					
bearing	000°	.....°	.....°	.....°	360°

Draw an accurate pie chart to show this information.

(i) Work out the scale factor. {Use the empty proportional triangle if it helps you.}



- (ii) Calculate the angles.
- (iii) Calculate the bearings and draw the sectors. {Bearings help with accuracy}
- (iv) Label the sectors.

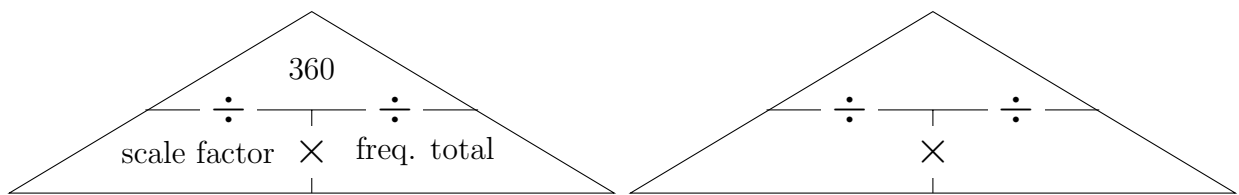


4. 36 people had to choose a meal at a fund raiser.  
The table shows information about their choices.

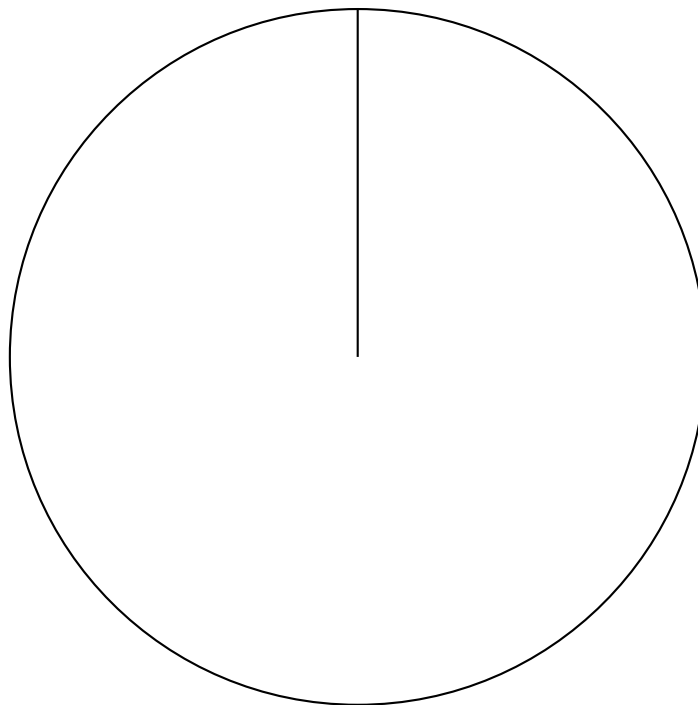
	Curry	Fish'n'chips	Pad Thai	Pie'n'mash	Total
Frequency	13	7	5	11	
Angle					
Bearing	000°	.....°	.....°	.....°	360°

Draw an accurate pie chart to show the information in the table.

(i) Work out the scale factor. {Use the empty proportional triangle if it helps you.}



- (ii) Calculate the angles.
- (iii) Calculate the bearings and draw the sectors. {Bearings help with accuracy}
- (iv) Label the sectors.



Answers

- 1. (i) 2 (ii) angles: 38, 126, 196 (iii) bearings: 38, 164
- 2. (i) 4 (ii) angles: 76, 68, 136, 80 (iii) bearings: 76, 144, 280
- 3. (i) 12 (ii) angles: 96, 228, 36 (iii) bearings: 96, 324
- 4. (i) 10 (ii) angles: 130, 70, 50, 110 (iii) bearings: 130, 200, 250