Drawing and reading pie charts

1

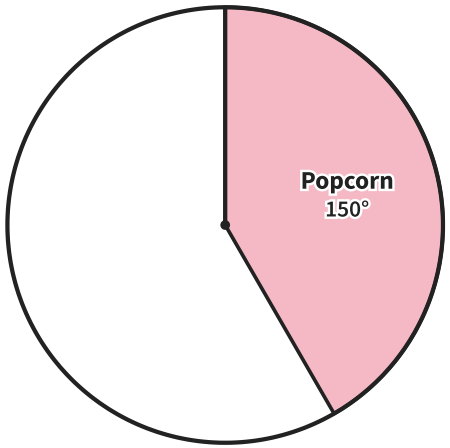
A cinema asked 36 people which snack they bought.

a) Total frequency: 36

b) Degrees each: 360° ÷ 36 = 10°

c) Check the angles add up to 360°.

d) Draw the pie chart.



	Frequency	Angle
Popcorn	15	15 × 10 = 150°
Nachos	9	9 × 10 = 90°
Sweets	8	8 × 10 = 80°
Nothing	4	4 × 10 = 40°
Total	**36**	**360°**

2

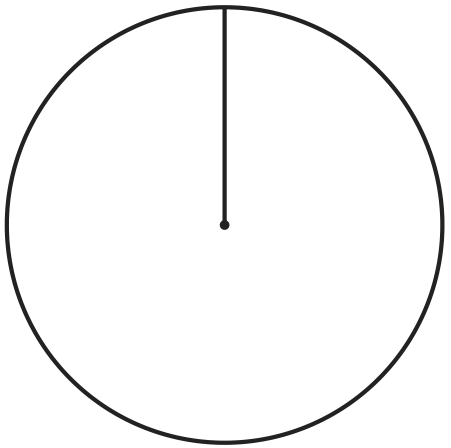
45 runners chose a race distance.

a) Total frequency: 45

b) Degrees each: 360° ÷ 45 = 8°

c) Complete the angle column.
The angles add up to 360°.

d) Draw the pie chart.



	Frequency	Angle
5 km	19	19 × 8 = 152°
10 km	14	14 × ____ = ____
Half	8	8 × ____ = ____
Full	4	4 × ____ = ____
Total	**45**	**360°**

3

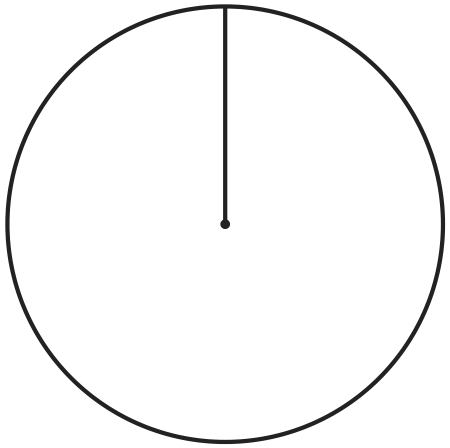
Some students chose a school lunch.

a) Total frequency: 72

b) Degrees each: 360° ÷ 72 = _____

c) Complete the angle column.
The angles add up to 360°.

d) Draw the pie chart.



	Frequency	Angle
Pasta	25	
Curry	21	
Salad	16	
Soup	10	
Total	**72**	**360°**

4

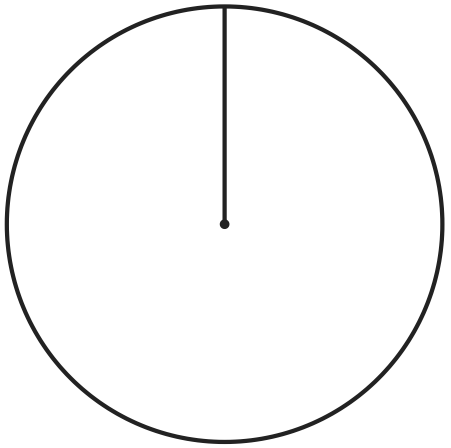
A garage counted the colours of the cars it serviced.

a) Total frequency: _____

b) Degrees each: 360° ÷ total = _____

c) Complete the angle column.
The angles add up to 360°.

d) Draw the pie chart.

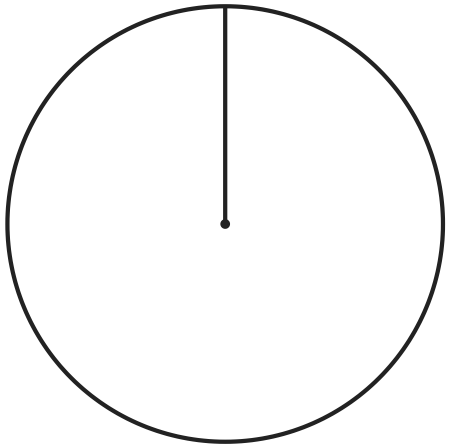


	Frequency	Angle
Silver	19	
Black	17	
White	14	
Blue	10	
Total		**360°**

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5

90 visitors to a farm park chose their favourite animal. Draw a pie chart.



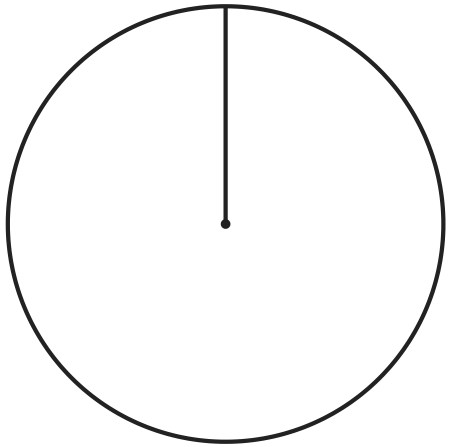
	Frequency	Angle
Goats	28	
Alpacas	22	
Pigs	18	
Ducks	12	
Sheep	10	
Total	**90**	**360°**

6

Ola asked 20 people their favourite sport.
She says the angle for Tennis is 7°.

a) Explain why Ola is wrong.

b) Draw the pie chart.

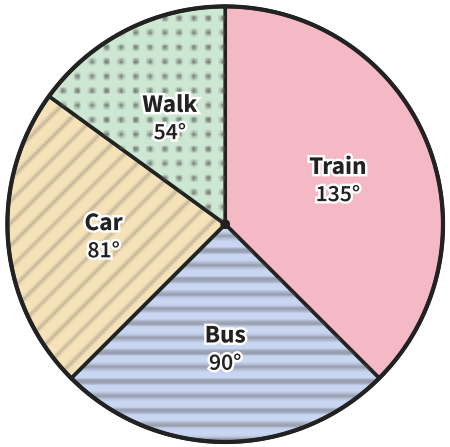


	Frequency	Angle
Football	8	
Tennis	7	
Swimming	3	
Golf	2	
Total	**20**	**360°**

7

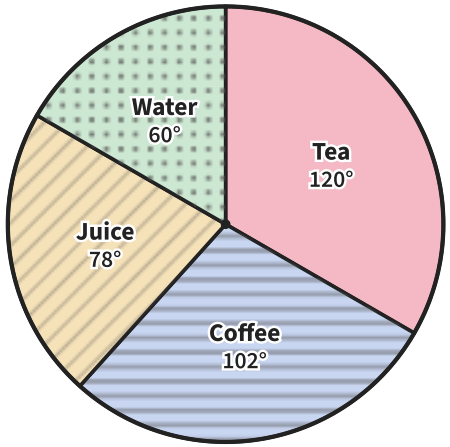
The pie chart shows how 40 people travelled to a match. How many came by train?

Train _____



8

The pie chart shows the drinks 60 people chose.
Complete the frequency table.

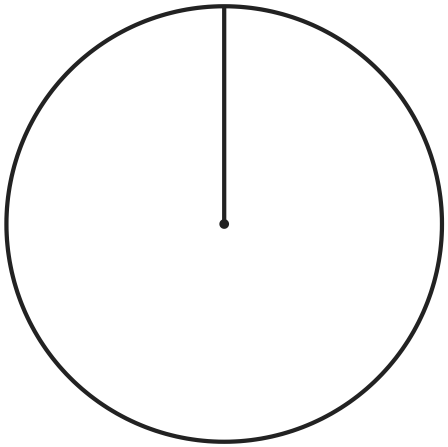


	Angle	Frequency
Tea	120°	
Coffee	102°	
Juice	78°	
Water	60°	
Total	**360°**	**60**

Drawing and reading pie charts *further practice*

9

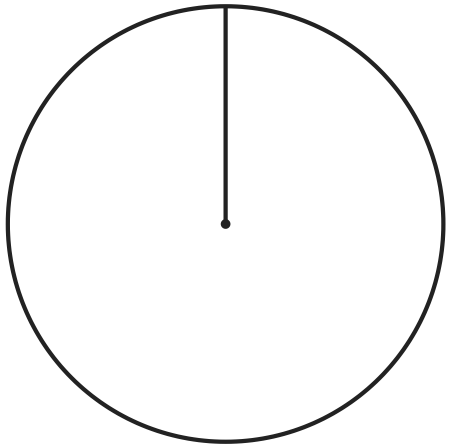
24 pupils chose their favourite fruit.
Draw a pie chart.



	Frequency	Angle
Apple	9	
Banana	7	
Grape	5	
Pear	3	
Total	**24**	**360°**

10

A bakery sold 45 loaves: 18 white, 12 brown, 9 seeded and the rest rye.
Complete the table, then draw a pie chart.



	Frequency	Angle
White	18	
Brown	12	
Seeded	9	
Rye		
Total	**45**	**360°**

11

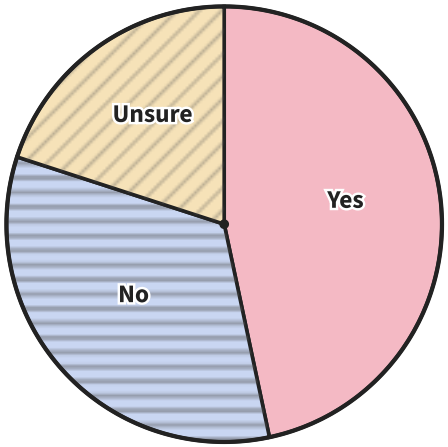
30 people voted on a new skate park.
Measure the angle for Yes.
How many people voted Yes?

Angle _____

_____

_____

Yes _____



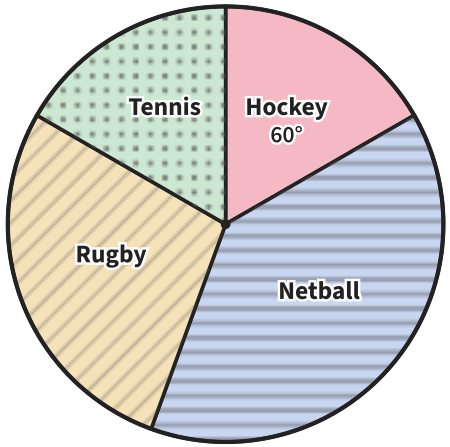
12

In this pie chart, the 60° sector shows the 15 people who chose hockey.
How many people are shown altogether?

_____

_____

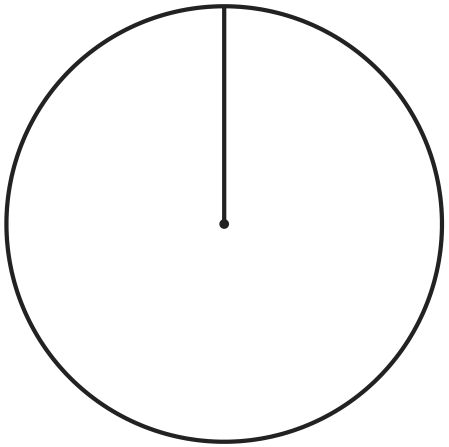
Total _____



Drawing and reading pie charts *further practice*

13

Zara earned £120 from a summer job. She saved £50, spent £40 on clothes and £30 on gigs. Draw a pie chart.

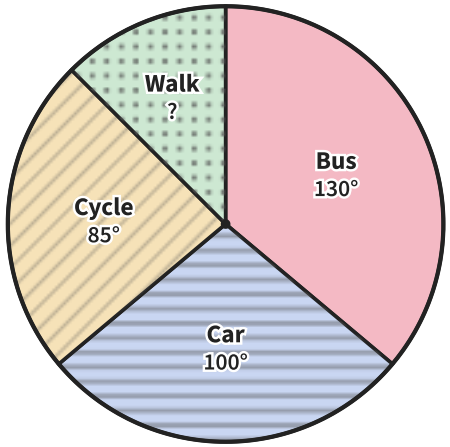


	Amount (£)	Angle
Saved	50	
Clothes	40	
Gigs	30	
Total	**120**	**360°**

14

The pie chart shows how 72 commuters travel. Work out the angle for Walk, then how many people walk.

Walk _____



15

Ben drew a pie chart for 45 people. His angles were 150°, 110°, 70° and 40°. Explain how you know he has made a mistake.

16

In class A (30 students) the Walk sector is 120°. In class B (60 students) it is 90°. Mo says more students walk in class A. Is he right? Show how you know.