

Drawing Pie Charts

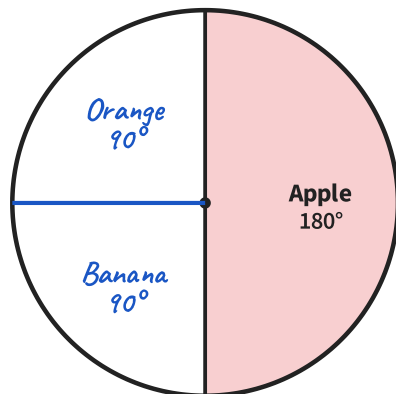
ANSWERS

1

12 people chose a fruit. Draw a pie chart.

Fruit	Frequency	Angle
Apple	6	$6 \times 30 = 180^\circ$
Banana	3	$3 \times 30 = 90^\circ$
Orange	3	$3 \times 30 = 90^\circ$
Total	12	360°

Degrees each: $360^\circ \div 12 = 30^\circ$

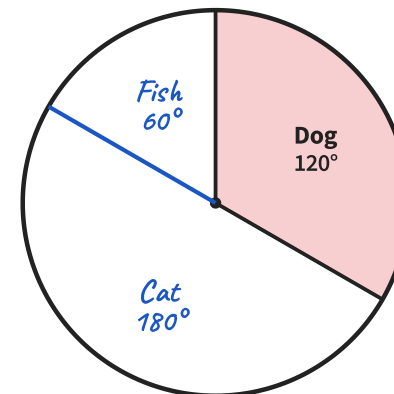


2

36 people chose a pet. Draw a pie chart.

Pet	Frequency	Angle
Dog	12	$12 \times 10 = 120^\circ$
Cat	18	$18 \times 10 = 180^\circ$
Fish	6	$6 \times 10 = 60^\circ$
Total	36	360°

Degrees each: $360^\circ \div 36 = 10^\circ$

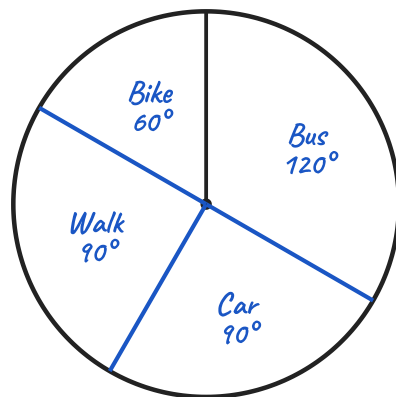


3

12 people said how they get to school. Draw a pie chart.

Travel	Frequency	Angle
Bus	4	$4 \times 30 = 120^\circ$
Car	3	$3 \times 30 = 90^\circ$
Walk	3	$3 \times 30 = 90^\circ$
Bike	2	$2 \times 30 = 60^\circ$
Total	12	360°

Degrees each: $360^\circ \div 12 = 30^\circ$

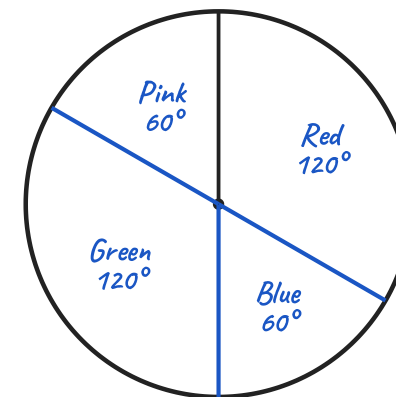


4

18 people chose a colour. Draw a pie chart.

Colour	Frequency	Angle
Red	6	$6 \times 20 = 120^\circ$
Blue	3	$3 \times 20 = 60^\circ$
Green	6	$6 \times 20 = 120^\circ$
Pink	3	$3 \times 20 = 60^\circ$
Total	18	360°

Degrees each: $360^\circ \div 18 = 20^\circ$



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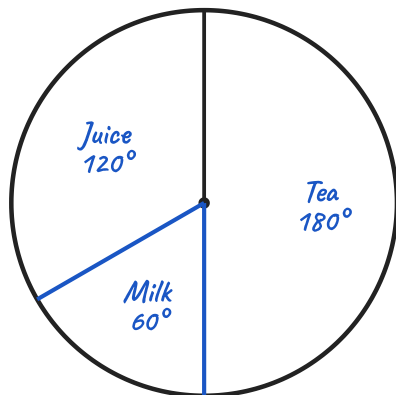
ANSWERS

5

6 people chose a drink. Draw a pie chart.

Drink	Frequency	Angle
Tea	3	$3 \times 60 = 180^\circ$
Milk	1	$1 \times 60 = 60^\circ$
Juice	2	$2 \times 60 = 120^\circ$
Total	6	360°

Degrees each: $360^\circ \div 6 = 60^\circ$

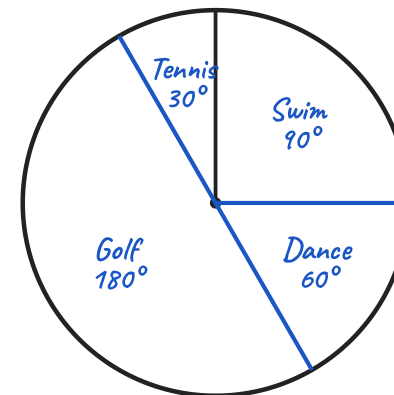


6

36 people chose a sport. Draw a pie chart.

Sport	Frequency	Angle
Swim	9	$9 \times 10 = 90^\circ$
Dance	6	$6 \times 10 = 60^\circ$
Golf	18	$18 \times 10 = 180^\circ$
Tennis	3	$3 \times 10 = 30^\circ$
Total	36	360°

Degrees each: $360^\circ \div 36 = 10^\circ$

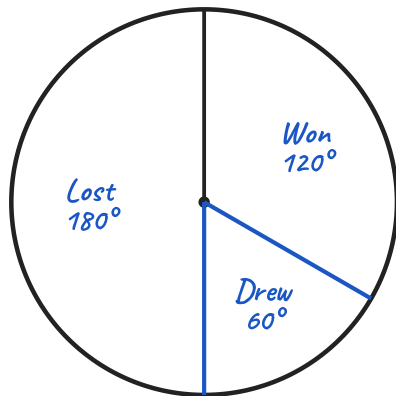


7

A team played 18 games. Draw a pie chart.

Result	Frequency	Angle
Won	6	$6 \times 20 = 120^\circ$
Drew	3	$3 \times 20 = 60^\circ$
Lost	9	$9 \times 20 = 180^\circ$
Total	18	360°

Degrees each: $360^\circ \div 18 = 20^\circ$

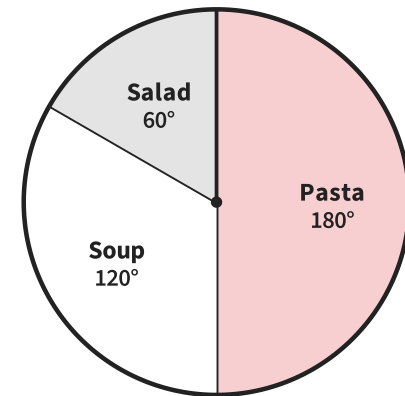


8

36 people chose a lunch. Complete the table.

Lunch	Angle	Frequency
Pasta	180°	$180 \div 10 = 18$
Soup	120°	$120 \div 10 = 12$
Salad	60°	$60 \div 10 = 6$
Total	360°	36

Degrees each: $360^\circ \div 36 = 10^\circ$



Drawing Pie Charts *further practice*

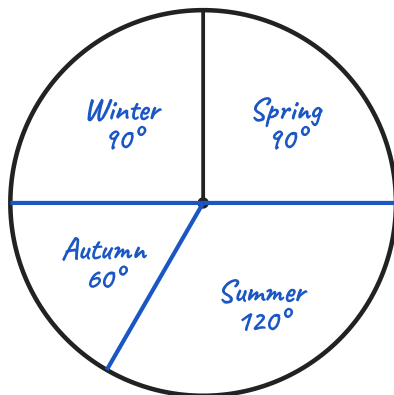
ANSWERS

9

36 people chose a season. Draw a pie chart.

Season	Frequency	Angle
Spring	9	$9 \times 10 = 90^\circ$
Summer	12	$12 \times 10 = 120^\circ$
Autumn	6	$6 \times 10 = 60^\circ$
Winter	9	$9 \times 10 = 90^\circ$
Total	36	360°

Degrees each: $360^\circ \div 36 = 10^\circ$



10

36 trees in a park are counted. Draw a pie chart.

Tree	Frequency	Angle
Oak	12	$12 \times 10 = 120^\circ$
Ash	9	$9 \times 10 = 90^\circ$
Pine	6	$6 \times 10 = 60^\circ$
Birch	6	$6 \times 10 = 60^\circ$
Elm	3	$3 \times 10 = 30^\circ$
Total	36	360°

Degrees each: $360^\circ \div 36 = 10^\circ$



11

A café sold 18 drinks. 3 were teas, 6 were coffees and 9 were hot chocolates. Draw a pie chart.

Drink	Frequency	Angle
Tea	3	$3 \times 20 = 60^\circ$
Coffee	6	$6 \times 20 = 120^\circ$
Hot choc	9	$9 \times 20 = 180^\circ$
Total	18	360°

Degrees each: $360^\circ \div 18 = 20^\circ$

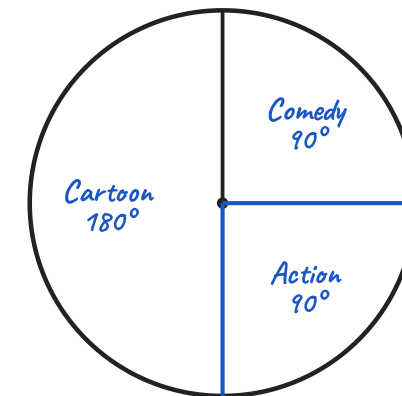


12

4 friends chose a film. Draw a pie chart.

Film	Frequency	Angle
Comedy	1	$1 \times 90 = 90^\circ$
Action	1	$1 \times 90 = 90^\circ$
Cartoon	2	$2 \times 90 = 180^\circ$
Total	4	360°

Degrees each: $360^\circ \div 4 = 90^\circ$



Drawing Pie Charts *further practice*

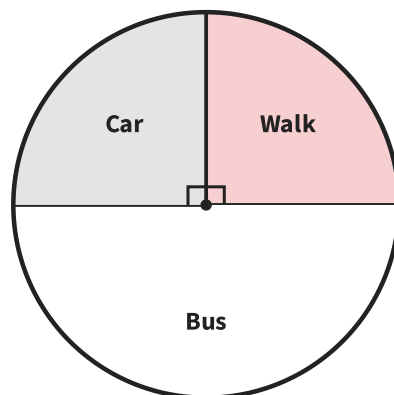
ANSWERS

13

20 students said how they get to school. How many walk?

Walk is
a quarter of the circle

Walk
 $20 \div 4 = 5$ students

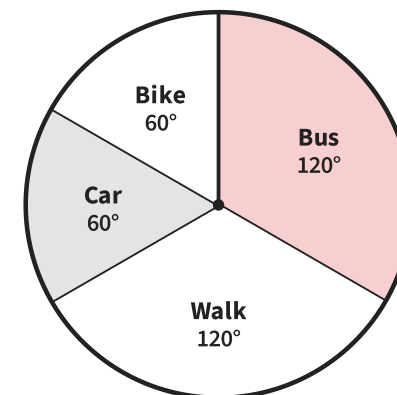


14

18 people said how they get to work. How many walk?

Degrees each
 $360 \div 18 = 20^\circ$

Walk
 $120 \div 20 = 6$

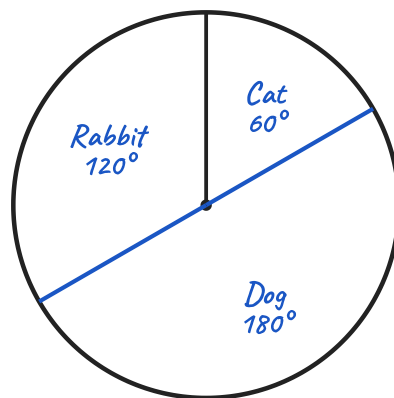


15

36 people chose a pet. Draw a pie chart.

Pet	Frequency	Angle
Cat	6	<i>$6 \times 10 = 60^\circ$</i>
Dog	18	<i>$18 \times 10 = 180^\circ$</i>
Rabbit	12	<i>$12 \times 10 = 120^\circ$</i>
Total	<i>36</i>	<i>360°</i>

Degrees each
 $360 \div 36 = 10^\circ$



16

Jo asked 36 people. 9 chose red. Jo says the angle for red is 9° . What has Jo done wrong?

Jo has used the
frequency as the angle.

Each person is
 $360^\circ \div 36 = 10^\circ$

Red should be
 $9 \times 10 = 90^\circ$

