

Drawing Pie Charts

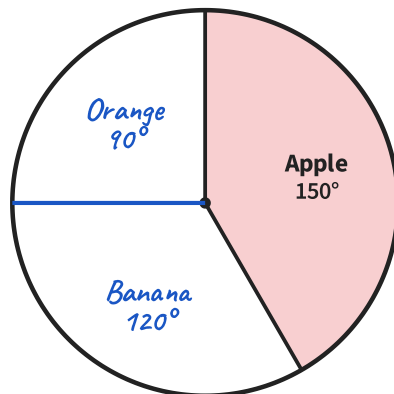
ANSWERS

1

36 people chose a fruit. Draw a pie chart.

Fruit	Frequency	Angle
Apple	15	$15 \times 10 = 150^\circ$
Banana	12	$12 \times 10 = 120^\circ$
Orange	9	$9 \times 10 = 90^\circ$
Total	36	360°

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

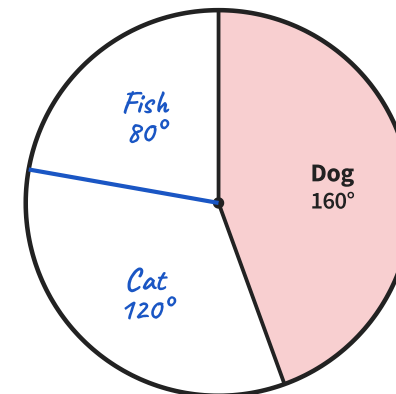


2

18 people chose a pet. Draw a pie chart.

Pet	Frequency	Angle
Dog	8	$8 \times 20 = 160^\circ$
Cat	6	$6 \times 20 = 120^\circ$
Fish	4	$4 \times 20 = 80^\circ$
Total	18	360°

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

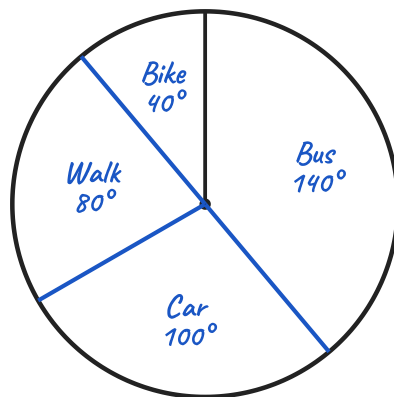


3

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

Travel	Frequency	Angle
Bus	14	$14 \times 10 = 140^\circ$
Car	10	$10 \times 10 = 100^\circ$
Walk	8	$8 \times 10 = 80^\circ$
Bike	4	$4 \times 10 = 40^\circ$
Total	36	360°

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

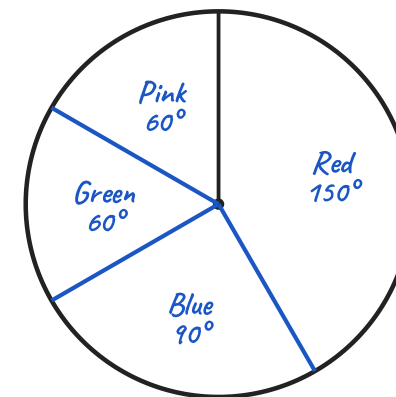


4

12 people chose a colour. Draw a pie chart.

Colour	Frequency	Angle
Red	5	$5 \times 30 = 150^\circ$
Blue	3	$3 \times 30 = 90^\circ$
Green	2	$2 \times 30 = 60^\circ$
Pink	2	$2 \times 30 = 60^\circ$
Total	12	360°

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



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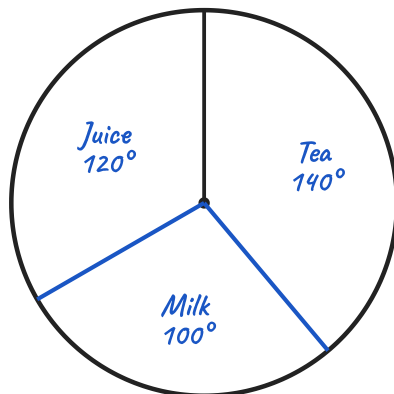
ANSWERS

5

18 people chose a drink. Draw a pie chart.

Drink	Frequency	Angle
Tea	7	$7 \times 20 = 140^\circ$
Milk	5	$5 \times 20 = 100^\circ$
Juice	6	$6 \times 20 = 120^\circ$
Total	18	360°

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

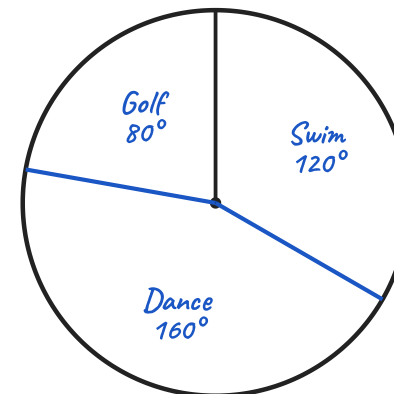


6

36 people chose a sport. Draw a pie chart.

Sport	Frequency	Angle
Swim	12	$12 \times 10 = 120^\circ$
Dance	16	$16 \times 10 = 160^\circ$
Golf	8	$8 \times 10 = 80^\circ$
Total	36	360°

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

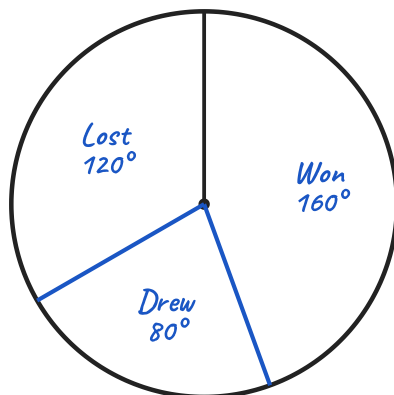


7

A team played 9 games. Draw a pie chart.

Result	Frequency	Angle
Won	4	$4 \times 40 = 160^\circ$
Drew	2	$2 \times 40 = 80^\circ$
Lost	3	$3 \times 40 = 120^\circ$
Total	9	360°

Degrees each: $360^\circ \div 9 = 40^\circ$

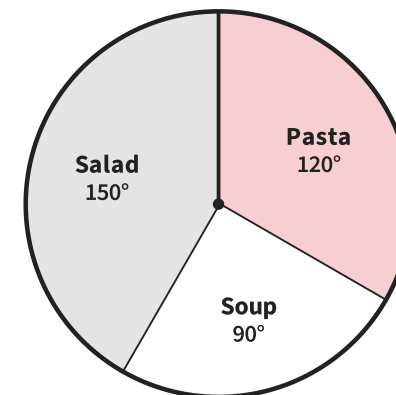


8

36 people chose a lunch. Complete the table.

Lunch	Angle	Frequency
Pasta	120°	$120 \div 10 = 12$
Soup	90°	$90 \div 10 = 9$
Salad	150°	$150 \div 10 = 15$
Total	360°	36

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



Drawing Pie Charts *further practice*

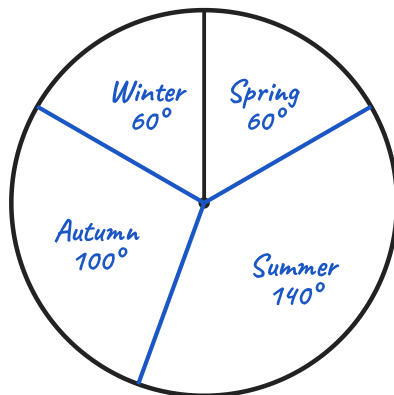
ANSWERS

9

18 people chose a season. Draw a pie chart.

Season	Frequency	Angle
Spring	3	$3 \times 20 = 60^\circ$
Summer	7	$7 \times 20 = 140^\circ$
Autumn	5	$5 \times 20 = 100^\circ$
Winter	3	$3 \times 20 = 60^\circ$
Total	18	360°

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

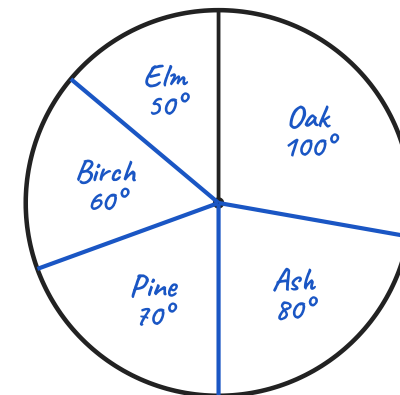


10

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

Tree	Frequency	Angle
Oak	10	$10 \times 10 = 100^\circ$
Ash	8	$8 \times 10 = 80^\circ$
Pine	7	$7 \times 10 = 70^\circ$
Birch	6	$6 \times 10 = 60^\circ$
Elm	5	$5 \times 10 = 50^\circ$
Total	36	360°

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

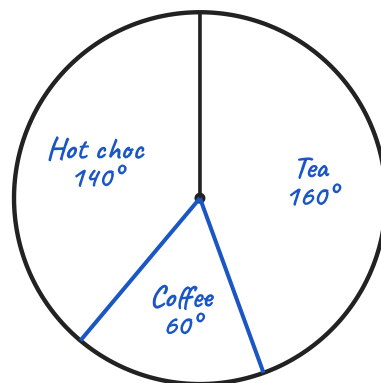


11

A café sold 18 drinks. 8 were teas, 3 were coffees and 7 were hot chocolates. Draw a pie chart.

Drink	Frequency	Angle
Tea	8	$8 \times 20 = 160^\circ$
Coffee	3	$3 \times 20 = 60^\circ$
Hot choc	7	$7 \times 20 = 140^\circ$
Total	18	360°

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

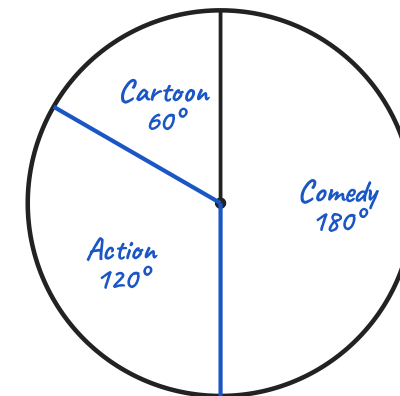


12

6 friends chose a film. Draw a pie chart.

Film	Frequency	Angle
Comedy	3	$3 \times 60 = 180^\circ$
Action	2	$2 \times 60 = 120^\circ$
Cartoon	1	$1 \times 60 = 60^\circ$
Total	6	360°

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



Drawing Pie Charts *further practice*

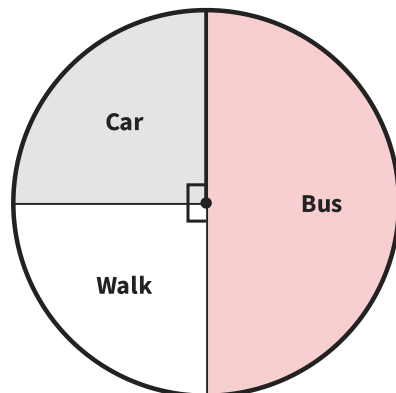
ANSWERS

13

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

Walk is
a quarter of the circle

Walk
 $40 \div 4 = 10$ students

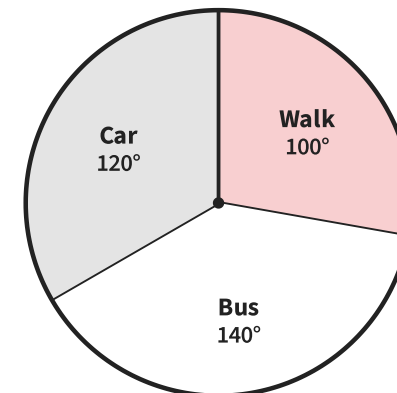


14

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

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

Walk
 $100 \div 20 = 5$

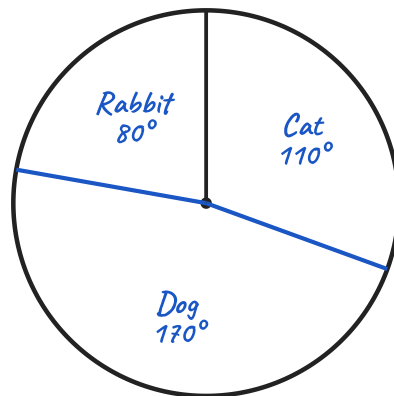


15

36 people chose a pet. Draw a pie chart.

Pet	Frequency	Angle
Cat	11	<i>$11 \times 10 = 110^\circ$</i>
Dog	17	<i>$17 \times 10 = 170^\circ$</i>
Rabbit	8	<i>$8 \times 10 = 80^\circ$</i>
Total	36	360°

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



16

Ali asked 18 people. 7 chose red. He says the angle for red is 7°. What has he done wrong?

Ali has used the
frequency as the angle.

Each person is
 $360^\circ \div 18 = 20^\circ$

Red should be
 $7 \times 20 = 140^\circ$

