

GRAYS TUITION CENTRE – Online Tutoring

WEEK: 4

Week Beginning: (11/01/2021)

Subject: MATHS

Year: 5

Lesson Objective:

- Understanding how to construct and analysis pie charts
- Be able to work out what the frequency is as an Angle on the pie chart
- Be able to interpret and answer question regarding pie chart

Class Worksheets

- Pie chart questions

Homework

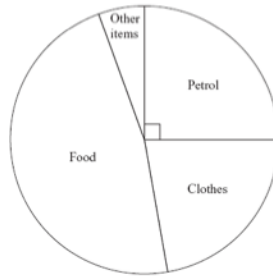
- Harder Pie chart questions

Additional Notes

- All lesson worksheets and **homework for next week (due Week 5)** worksheets can be found below
- Week 3 homework will be marked in lesson

2. Mrs Yusuf went shopping at a superstore.

The pie chart shows information about the money she spent on petrol, on clothes, on food and on other items.



(a) What did she spend most money on?

.....
(1)

(b) What fraction of the money she spent was on petrol?

.....
(1)

Mrs Yusuf spent £25 on petrol at the superstore.

(c) In total, how much money did she spend?

£
(2)

(4 marks)

9. The pie chart shows some information about the time Gill spent working in her garden one month.



(a) What fraction of the time did Gill spend cutting the grass?

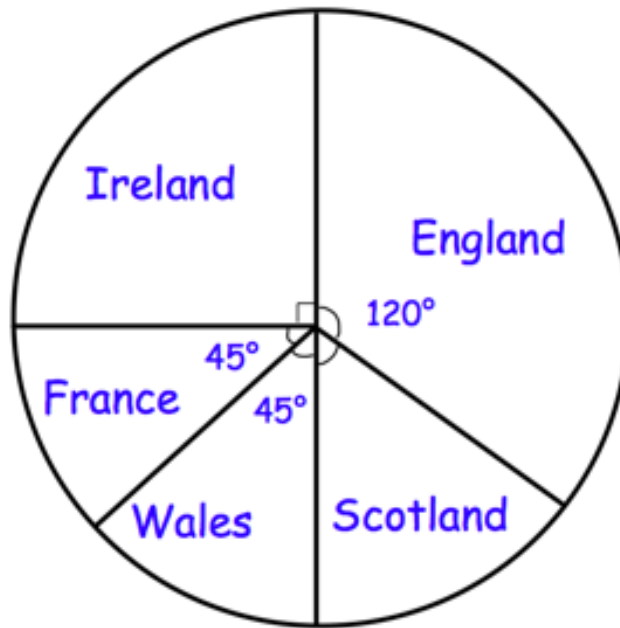
.....
(1)

Gill spent 7 hours weeding.

(b) How much time did Gill spend planting?

..... hours
(3)

5. A group of rugby fans were asked who they supported.
The pie chart and table show information about who they support.

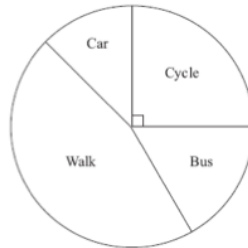


Use the pie chart to complete the table.

Team	Angle of sector	Number of fans
England	120°	
Scotland		
Wales	45°	
France	45°	
Ireland	90°	12

(4)

3. Harry asked each student in his class how they travelled to school that day. He used the results to draw this pie chart.



- (a) How did most of the students travel to school?

.....
(1)

Harry asked a total of 24 students.

- (b) Work out the number of students who cycled to school.

.....
(2)

(3 marks)

4. Sally recorded the musical instrument played by each of 30 students in the school orchestra. The table shows her results.

Musical instrument	Frequency	
Clarinet	5	
Guitar	12	
Flute	7	
Drums	6	

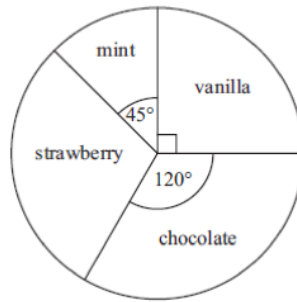
One of the students in the school orchestra is chosen at random.

- (a) Find the probability that this student plays the flute.

(2)

.....

5. Some children were asked to name their favourite flavour of ice cream. The pie chart and table show some information about their answers.

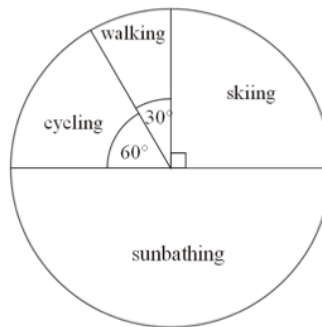


Use the pie chart to complete the table.

Flavour	Number of children	Angle of sector
vanilla	12	90°
mint	45°
strawberry	14
chocolate	120°

(3 marks)

6. Noreen carries out a survey of some students. The pie chart shows some information about their favourite holiday.



5 students said that walking is their favourite holiday.

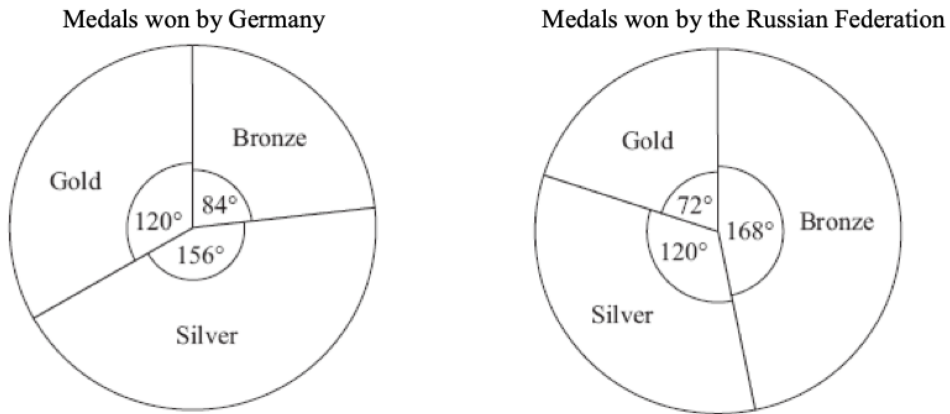
- (a) How many students took part in the survey?

.....
(2)

Noreen chooses one of these students at random.

- (b) Write down the probability that this student's favourite holiday is cycling.
(1)
(3 marks)

7. The pie charts show some information about the numbers of medals won by Germany and by the Russian Federation in the 2010 Winter Olympics.



Germany won 7 bronze medals.

- (a) How many gold medals did Germany win?

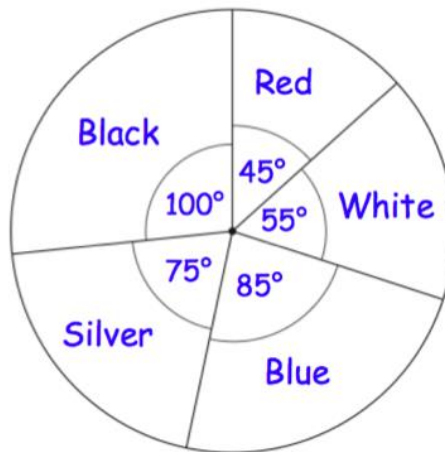
8. The table gives some information about the birds Paula sees in her garden one day.

Bird	Frequency
Magpie	15
Thrush	10
Starling	20
Sparrow	27

Complete the accurate pie chart.

Homework Questions:

2. The pie chart shows the colours of cars in a car park.



- (a) What is the most common colour of car in the car park?

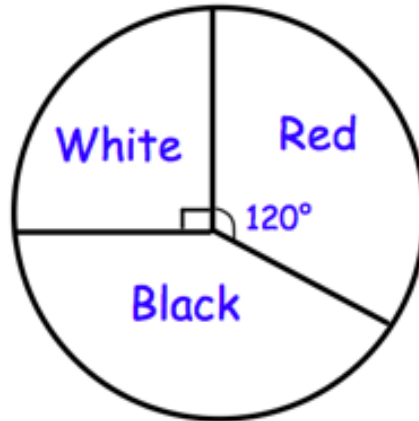
.....
(1)

- (b) What is the least common colour of car park?

4. A bag contains red, white and black counters.



The pie chart shows information about the counters in the bag.



(a) What fraction of the counters are white?
Give your answer in its simplest form.

.....
(2)

(b) What fraction of the counters are red?
Give your answer in its simplest form.

.....
(2)

There are 24 counters in the bag.

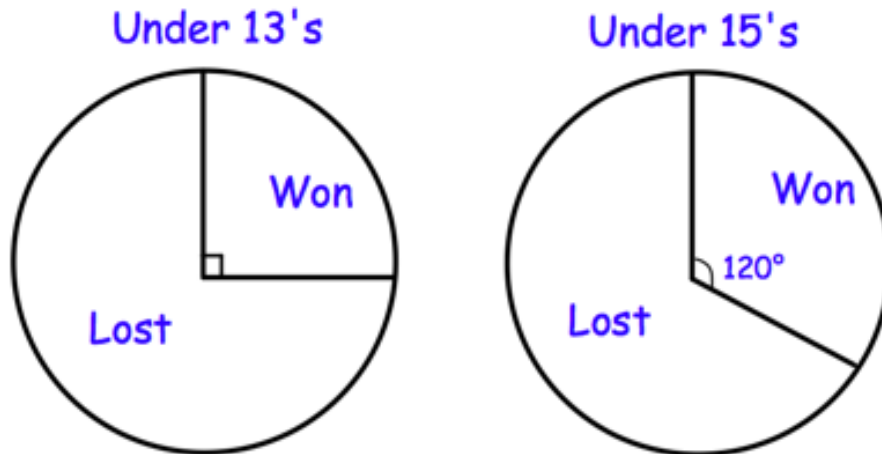
(c) Work out how many counters are black.

.....
(2)

6. A youth club has two rugby teams, Under 13's and Under 15's.



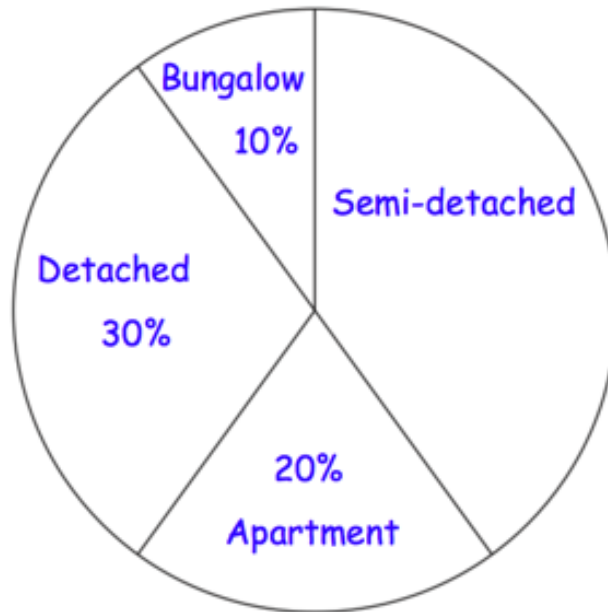
The pie charts show information about the number of games each team won and lost, last season.



The Under 13's played 28 matches.
The Under 15's played 18 matches.

Which team won more matches?
Show your workings.

7. The pie chart shows types of properties in a street with 80 properties.



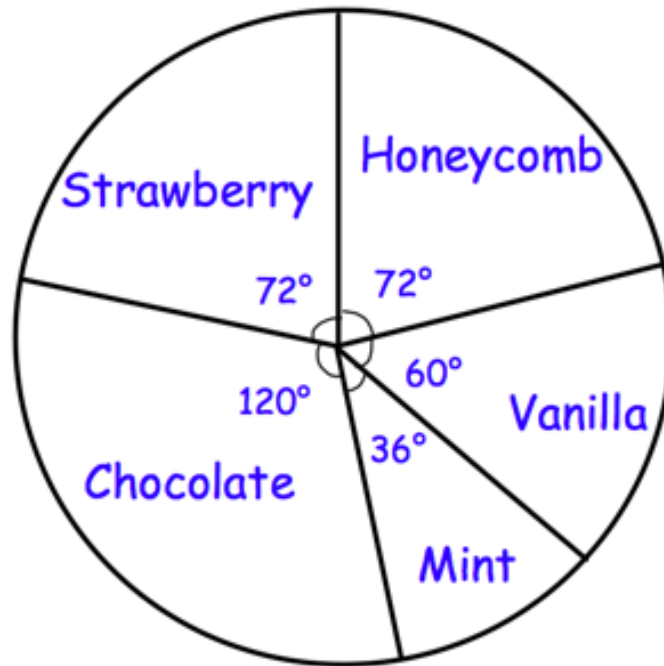
(a) Work out the percentage of properties that are semi-detached.

.....%
(2)

(b) Work out the number of semi-detached properties.

.....
(2)

8. The pie chart shows the flavours of ice cream sold by a shop in one day. There were a total of 270 ice creams sold.



- (a) Calculate the number of vanilla flavoured ice creams sold.

.....
(2)

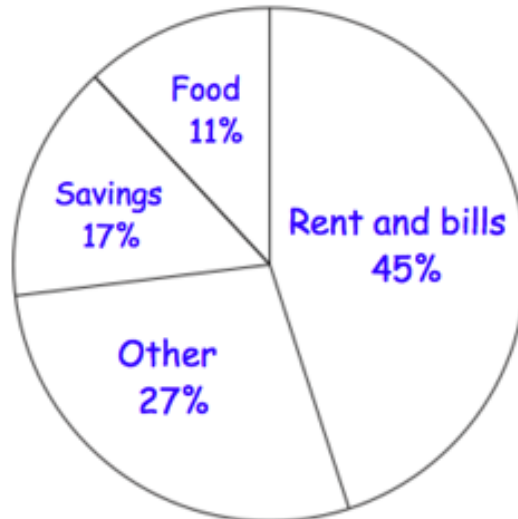
- (b) Calculate the number of mint flavoured ice creams sold.

.....
(2)

- (c) Calculate the number of strawberry flavoured ice creams sold.

.....
(2)

9. The pie chart shows information about how Mr.Jenkins spent his salary for July.



He was paid £2000 in July.

Work out how much Mr.Jenkins spent on rent and bills.

£.....
(2)