Name:

Exam Style Questions

Drawing Pie Charts

Corbettmaths

Equipment needed: Ruler, pencil, protractor, pen, calculator

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 163

Answers and Video Solutions

1. The table gives information about the holiday destination of 18 students in a class.

Country	Frequency	
France	3	
Wales	4	
England	11	

Draw an accurate pie chart to show this information.
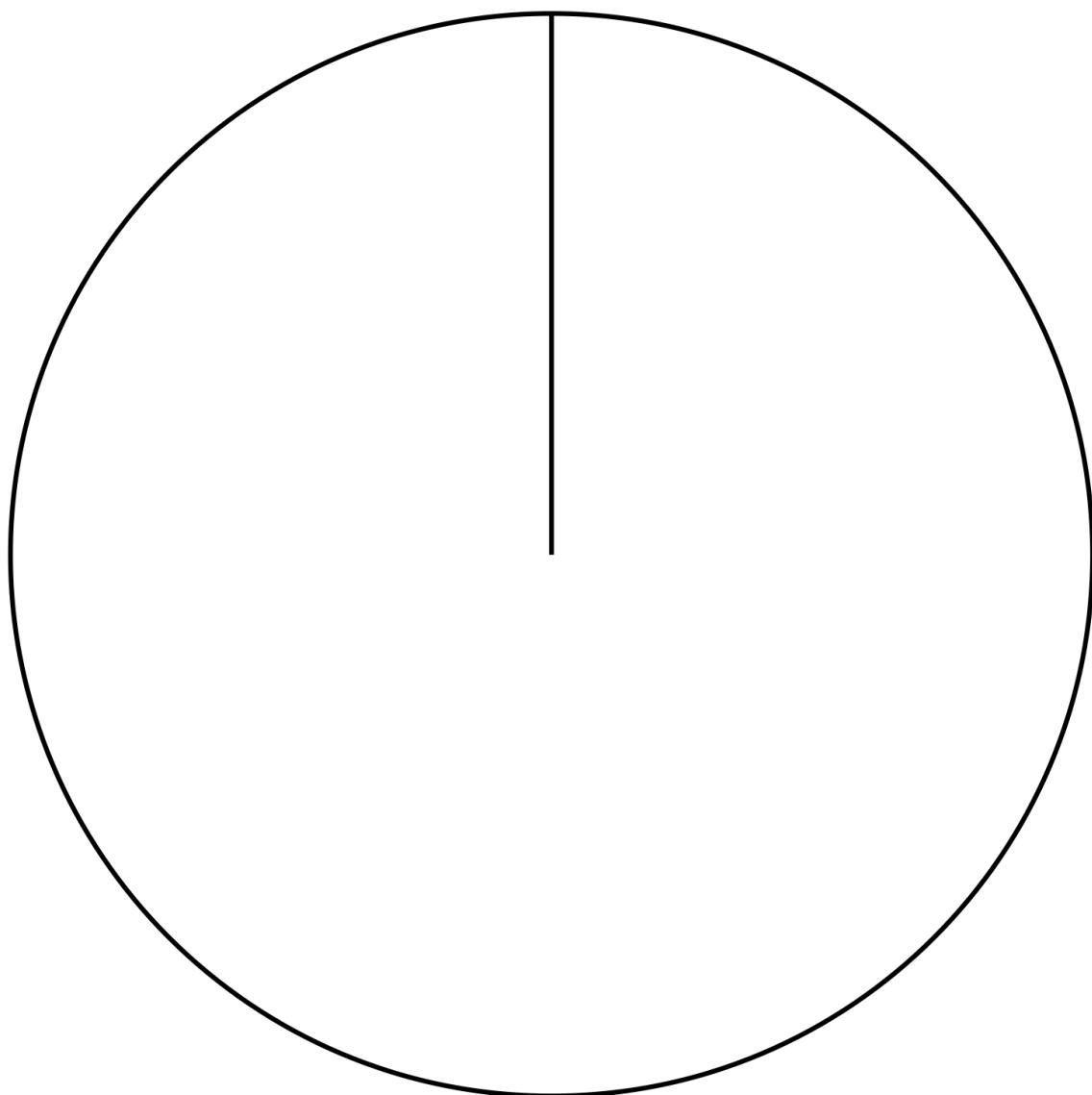
(4)

2.   The table gives information about the dogs in a village

Breed	Frequency
Spaniel	11
Poodle	7
Greyhound	4
Jack Russell	14

Draw an accurate pie chart to show this information.
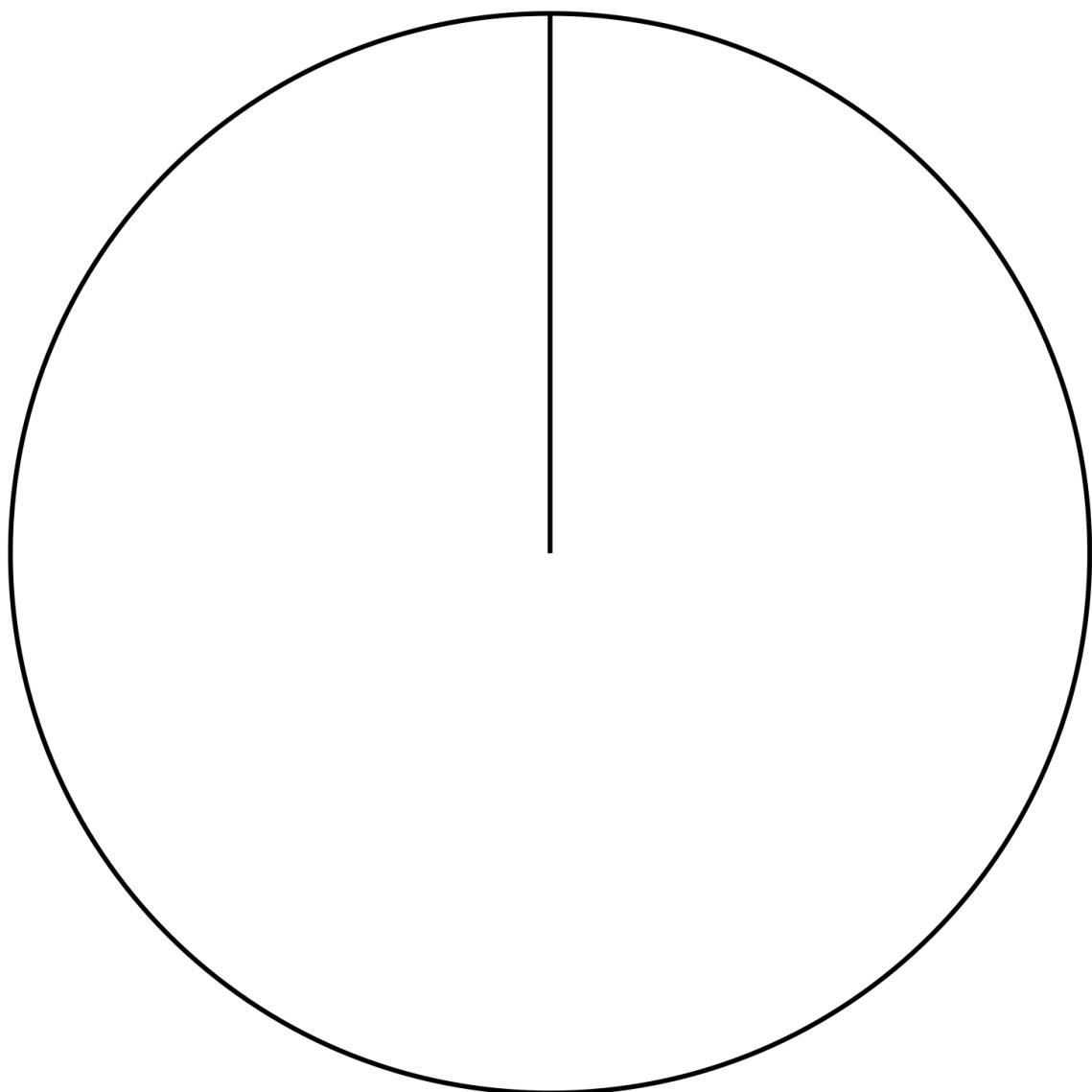
(4)

3. The table gives information about students staying after school to play sport.

Sport	Frequency
Netball	15
Hockey	10
Rugby	26
Football	9

Draw an accurate pie chart to show this information.
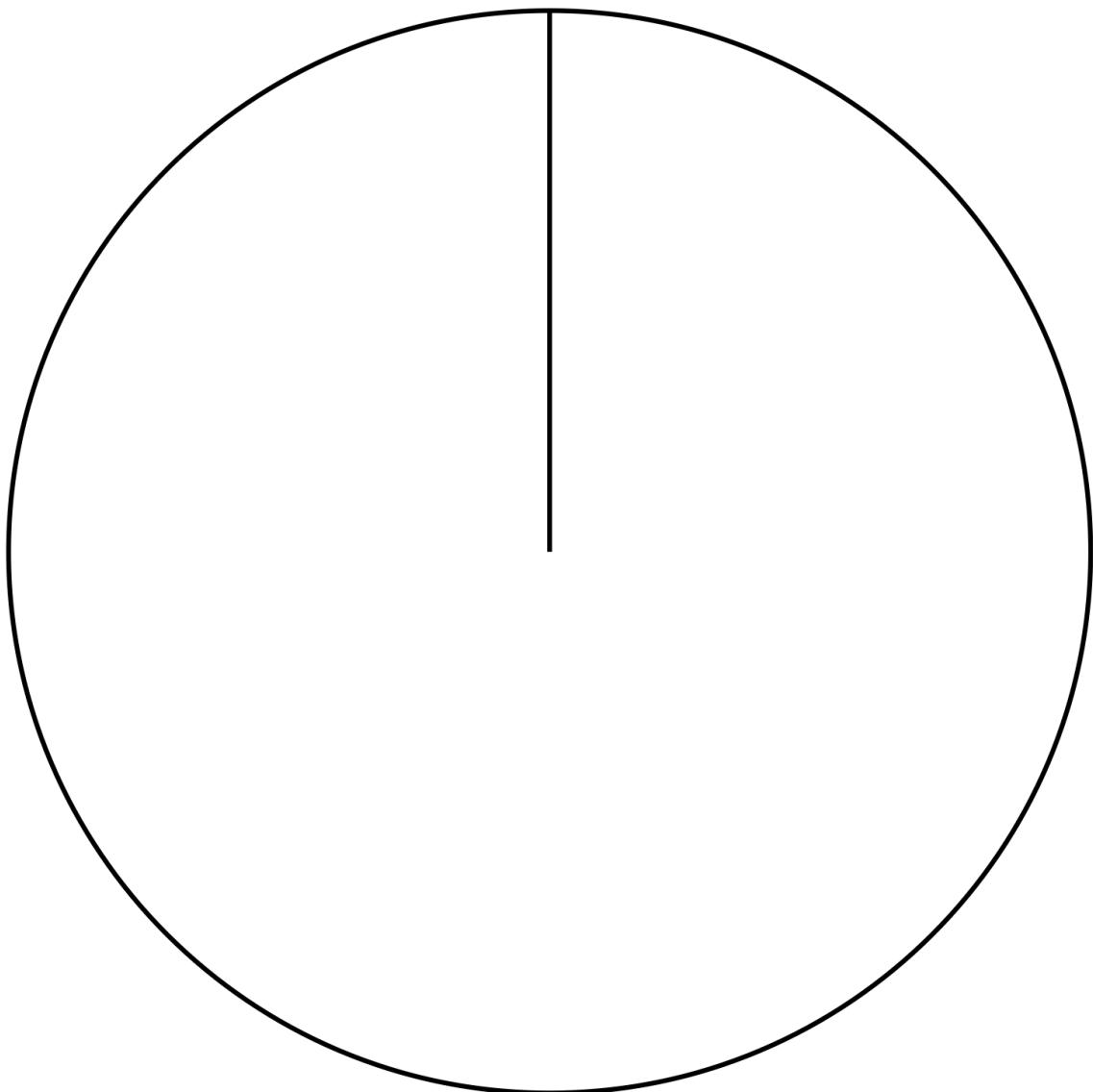
(4)

4. There are four types of tree planted in a new park.

Type of Tree	Number Planted
Ash	30
Birch	14
Oak	55
Willow	21

Complete the pie chart for the information in the table.
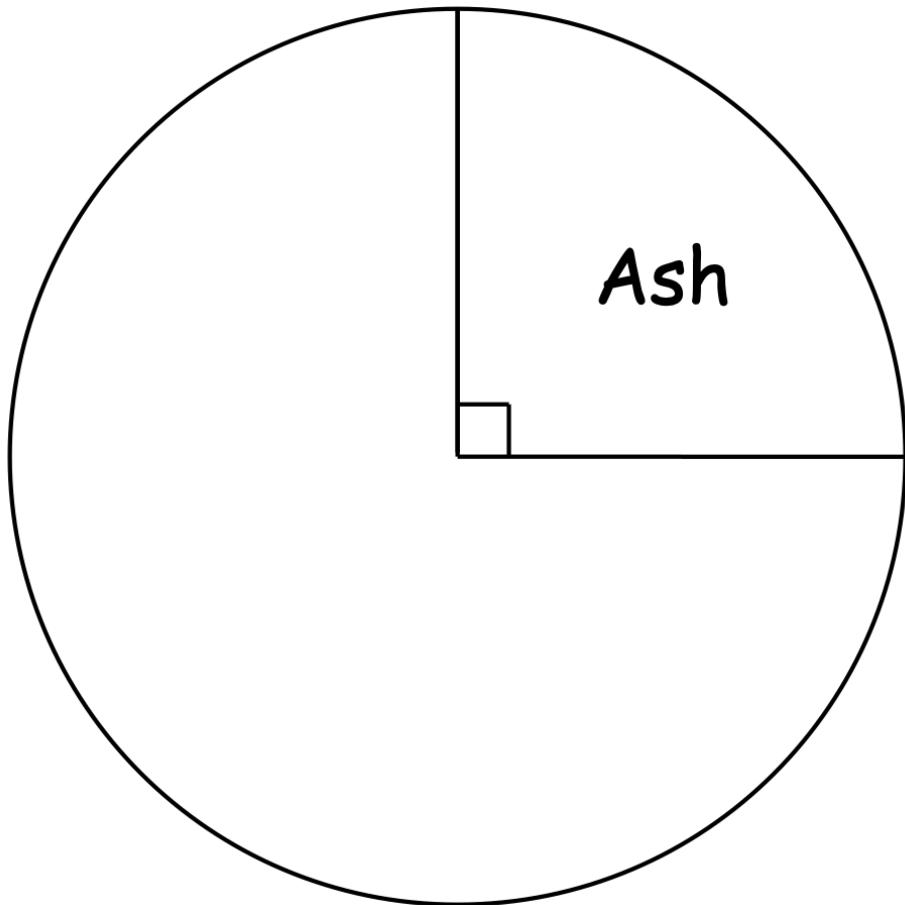
(4)

5.	A cinema sells popcorn in three different size bags.

Size	Number Sold
Small	20
Medium	90
Large	70

The manager of the cinema draws a pie chart to represent this information.
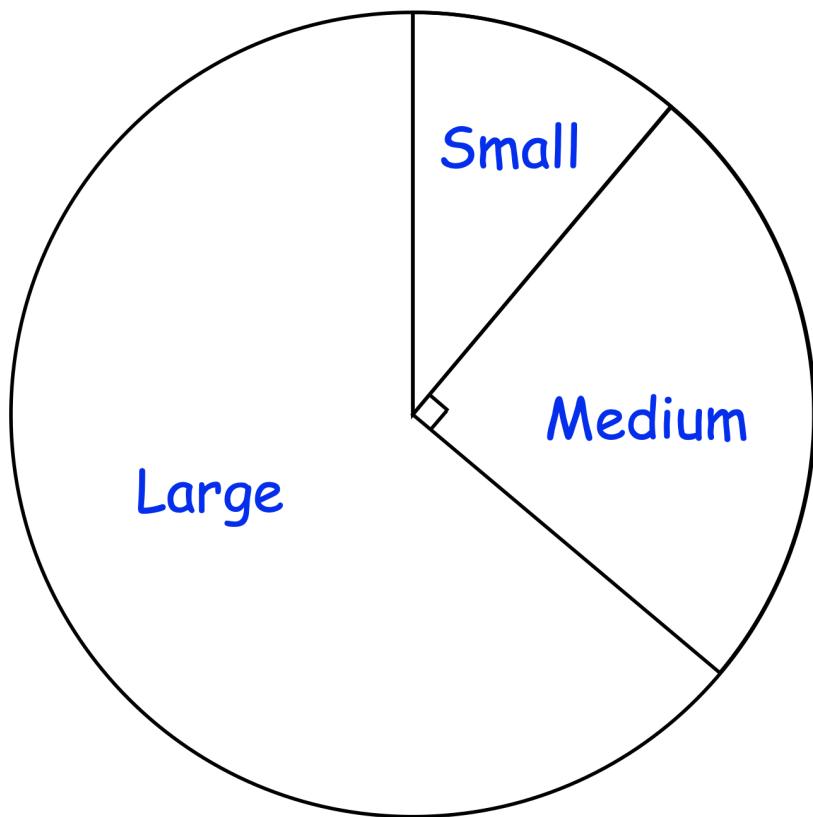

Give a criticism of the pie chart.

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....

....

(1)

6. The table gives information about the number of students in years 7 to 10.

Year	Frequency
7	200
8	140
9	220
10	160

Draw an accurate pie chart to show this information.
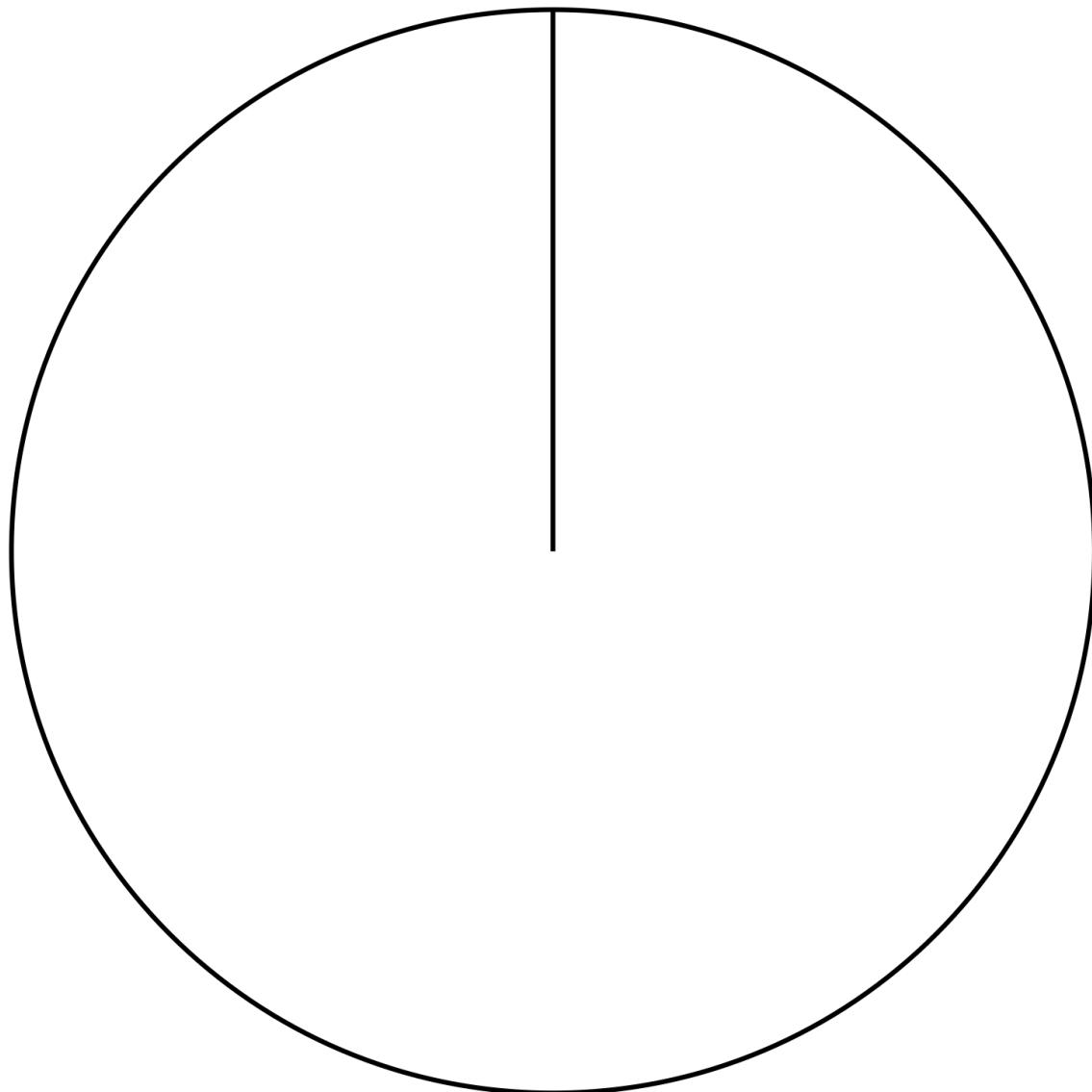
(4)

7. The table gives information about the meals ordered on a Sunday.

Meal	Frequency
Chicken	14
Beef	9
Pork	57
Vegetarian	10

Draw an accurate pie chart to show this information.
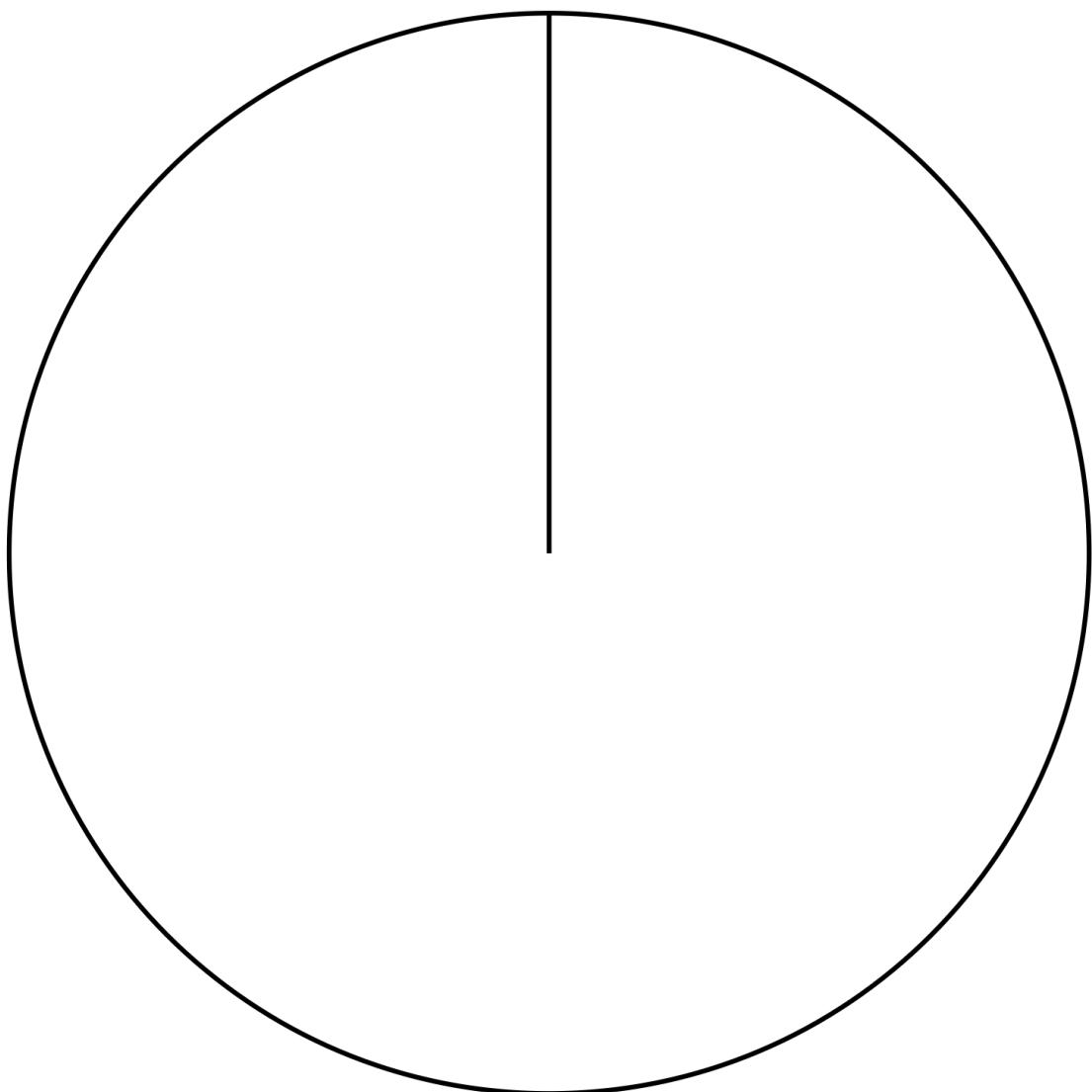
(4)

8. A football coach records the number of tackles made by 4 defenders during a match.

Defender	Tackles Made
Andy	25
Conor	60
Mark	35
Thomas	80

Draw a pie chart to show this information.
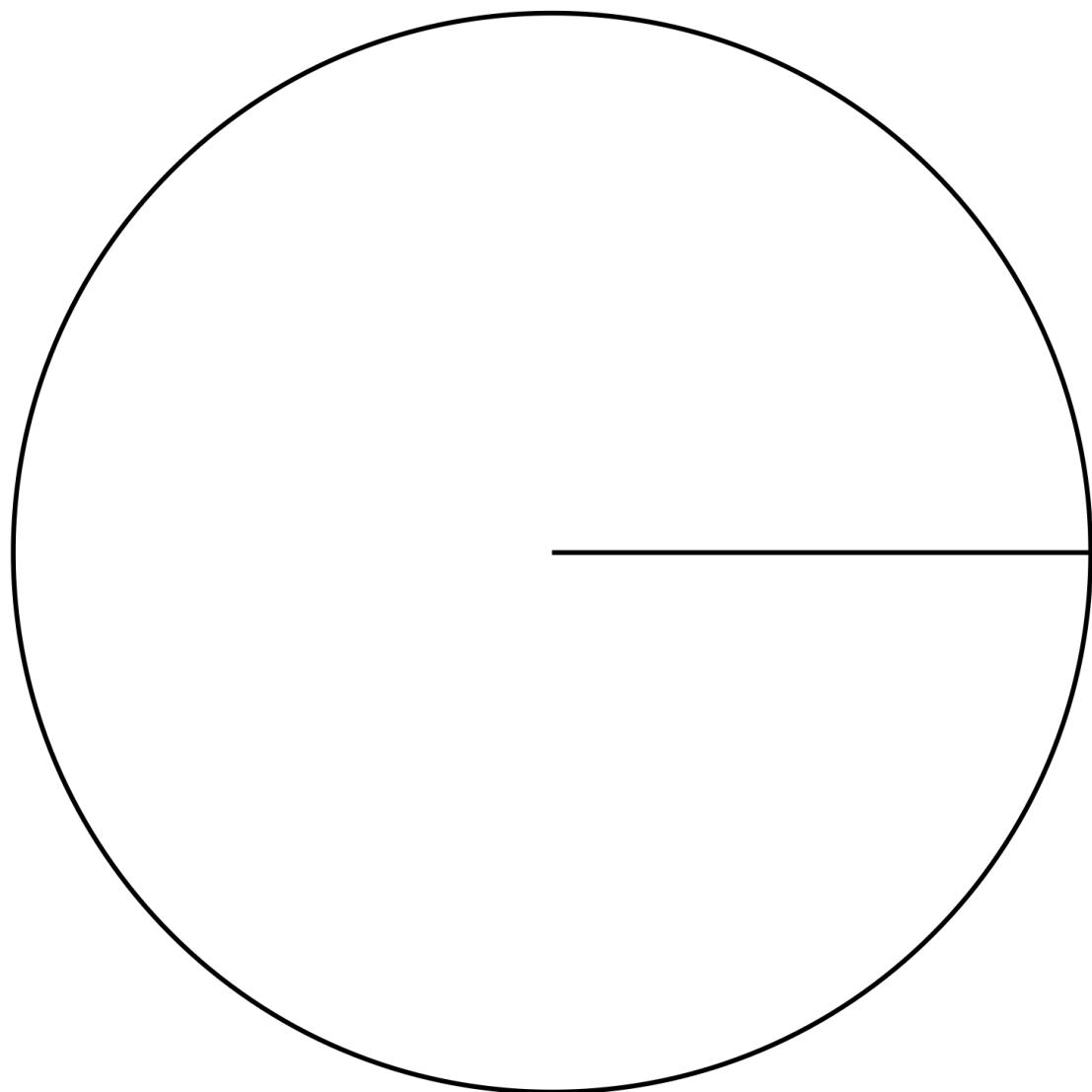
(4)

9. Jannik draws a pie chart to represent the colours of colours in a box.

   $\frac{1}{3}$ of the counters in a box are green.

   Circle the angle of the sector for the green counters

   30°   60°   120°   300°

   (1)

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10. In a pie chart, one sector represents 10% of the data.

    Circle the angle of that sector.

    3.6°   10°   18°   36°

    (1)

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11. A pie chart is drawn to represent the colour of the cars in a car park.

    The sector for the white cars is $72°$

    What fraction of the cars in the car park are white?
   Give your answer in its simplest form.

    ....
    (2)

12. Nigel sells bottles of drinks.

The table shows the percentage of drinks sold on a day.

Drink	Percentage
Cola	10%
Water	50%
Lemonade	40%

Draw an accurate pie chart to show this information.
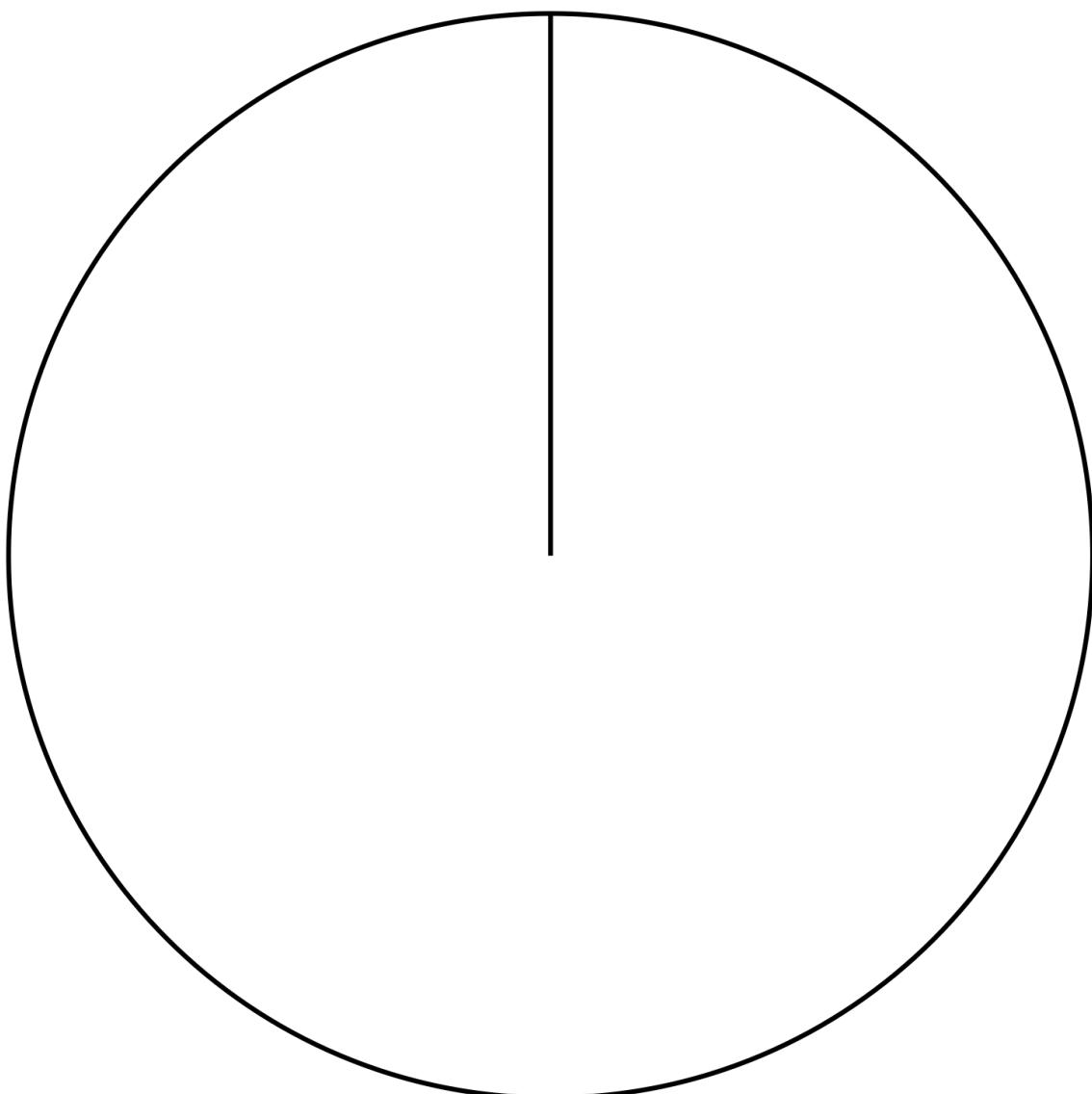
(4)

13. 40 people are surveyed about their opinion of a new road.
The council want to show their responses in a pie chart.

29 of the people said the new road was "excellent".

Work out the size of the angle for the "excellent" sector in the pie chart.

..............................°

(2)

14. A tub contains 72 counters.
The counters are either red, yellow, pink, blue or green.

Donnacha is going to draw a pie chart to represent the colours of the counters.

The table below shows some information.

Colour	Number in Tub	Angle
Red		
Yellow	11	
Pink		95°
Blue		20°
Green	5	

Complete the table.

(4)

15. How Katie allocates her wages is shown in the table below.

	Percentage	Angle in Pie Chart
Rent	25%	
Other Spending	45%	
Savings		

(a) Complete the table.

(3)

(b) Draw an accurate pie chart to show this information.
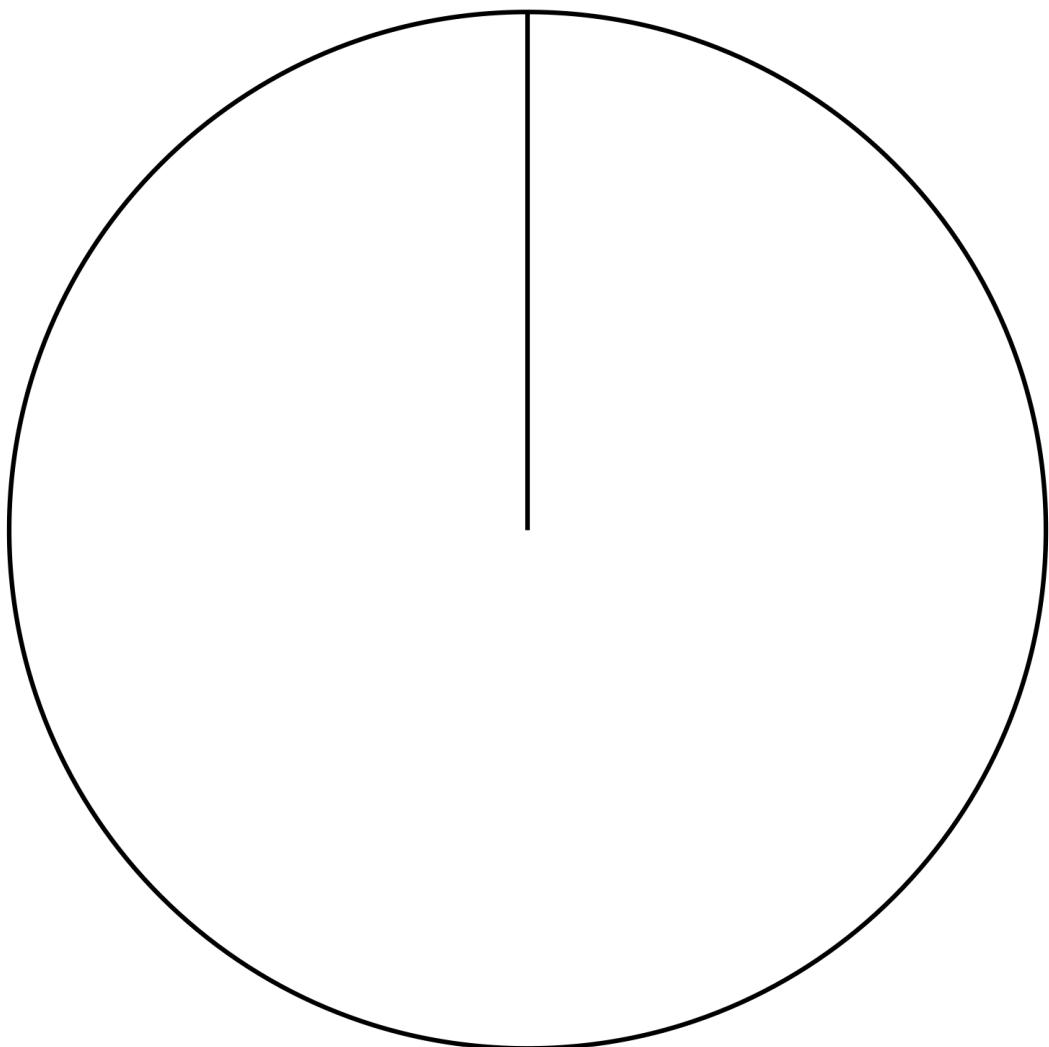
(4)

16. A running club has 240 members.

$\dfrac{2}{5}$ of the members are **senior** runners.

80 of the members **veteran** runners.

The rest of the runners are **junior** runners.

Draw and label a pie chart to show this information.
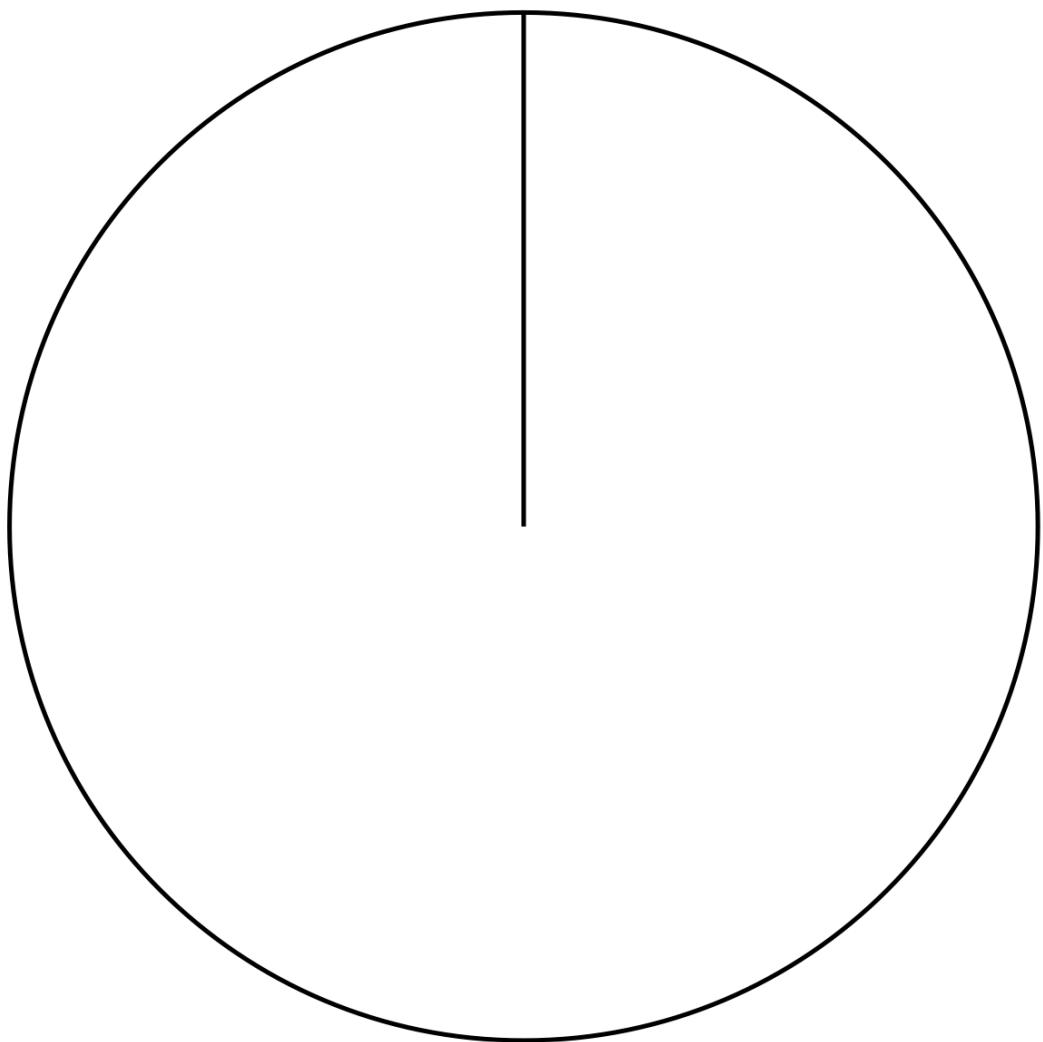
(4)

17. A bakery makes vanilla, chocolate, lemon and strawberry cupcakes.
The baker wants to draw a pie chart to represent the cupcakes made last week.
The sector for the vanilla cupcakes has been drawn.
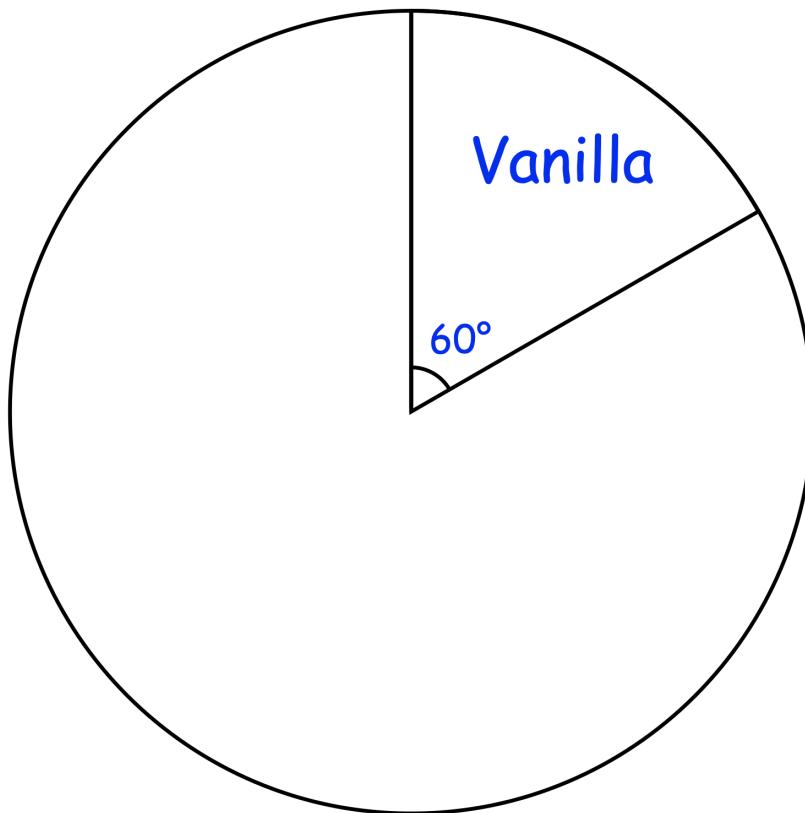
15% of the cupcakes made last week were strawberry.

The ratio of chocolate cupcakes to lemon cupcakes made last week is 2:1

Complete the pie chart.

(4)