

Name: _____

Exam Style Questions

Drawing Pie Charts



Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

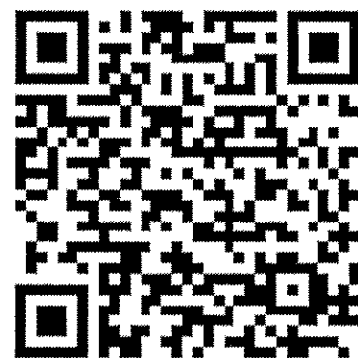
Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

www.corbettmaths.com/contents

Video 163



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

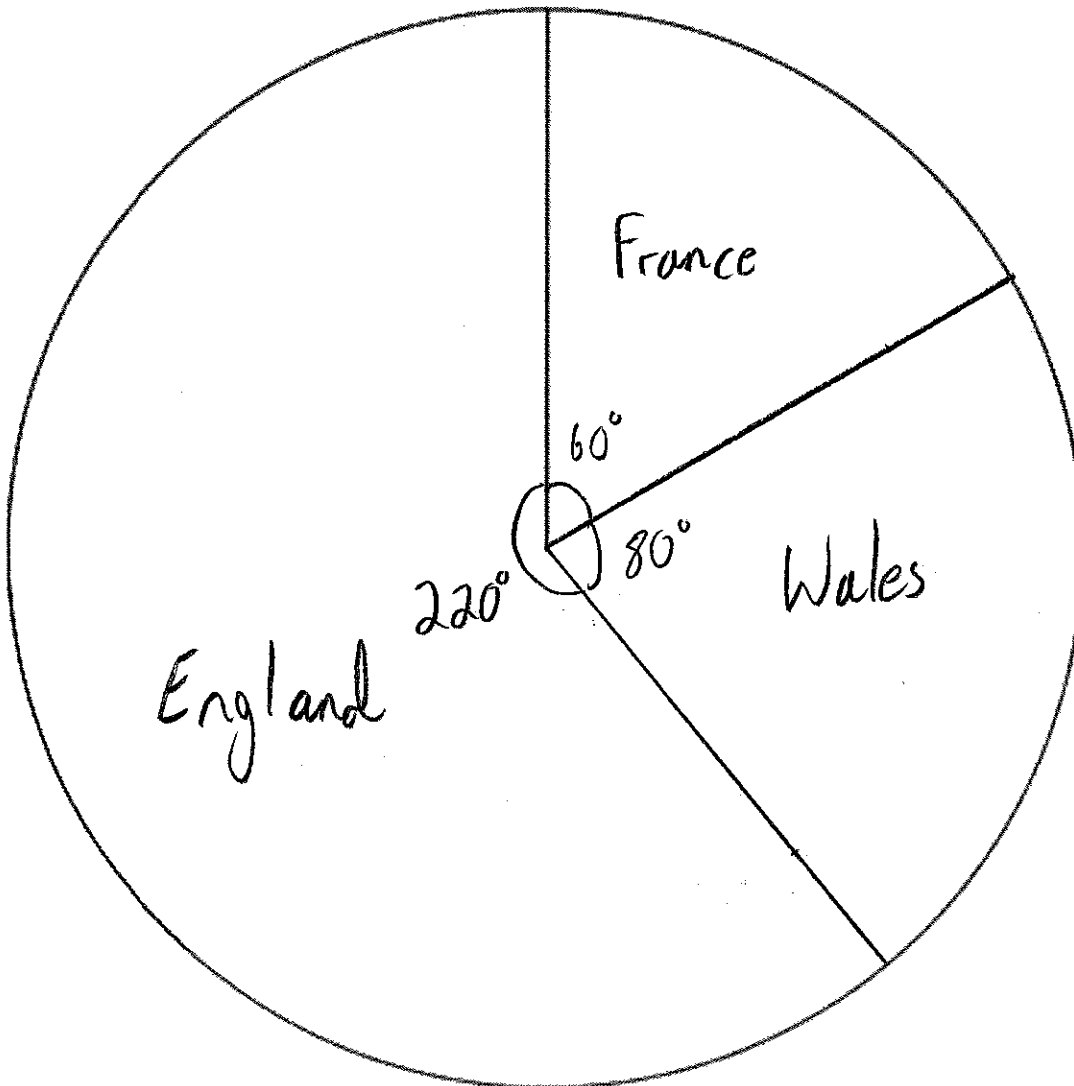


Country	Frequency	Angle
France	3 $\times 20$	60°
Wales	4 $\times 20$	80°
England	+ 11 $\times 20$	+ 220°
	18	360°

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

per person

Draw an accurate pie chart to show this information.



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



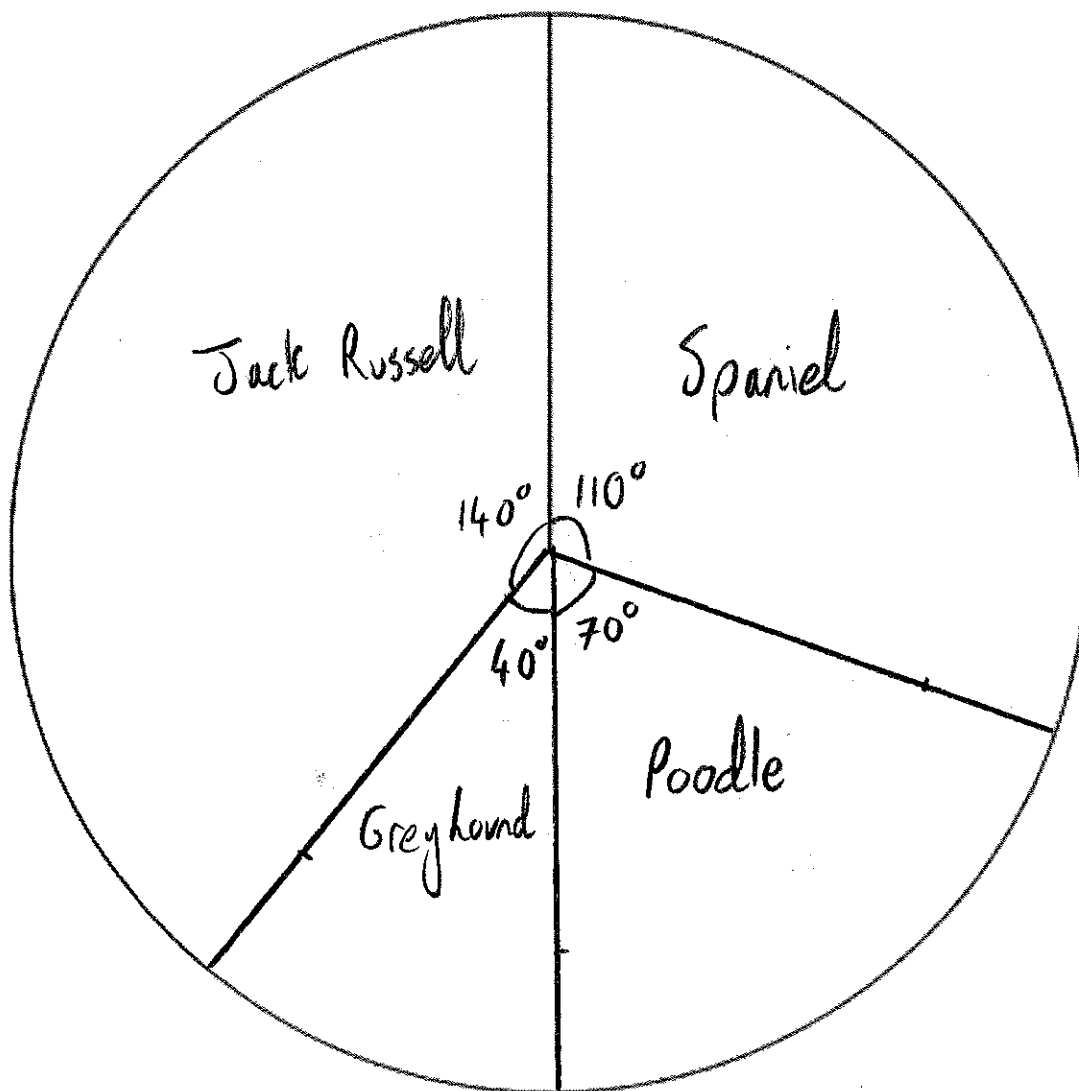
Breed	Frequency
Spaniel	11 x 10
Poodle	7 x 10
Greyhound	4 x 10
Jack Russell	14 x 10

36

Angle
110°
70°
40°
140°
+
360°

$360^\circ \div 36 = 10^\circ$ per dog

Draw an accurate pie chart to show this information.



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

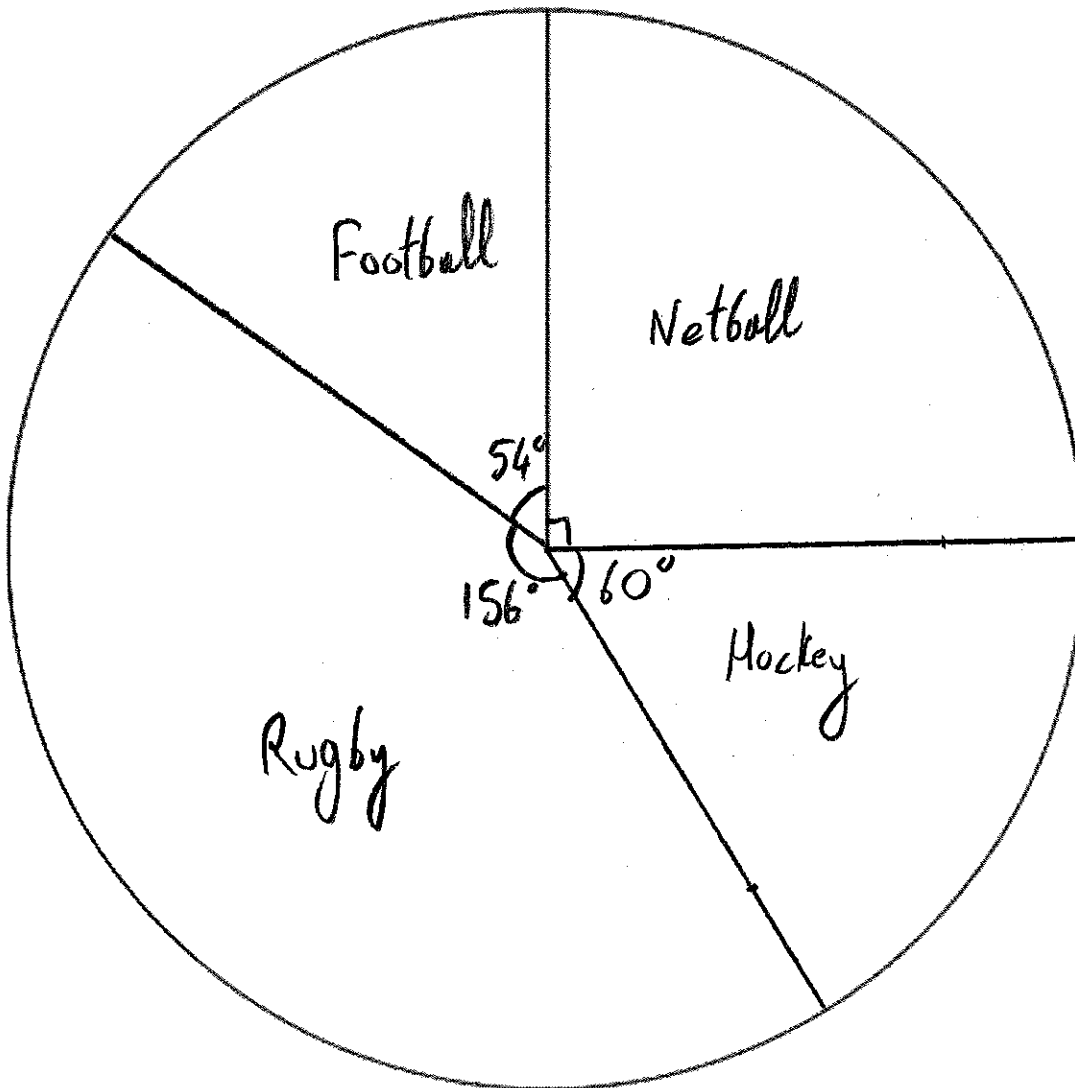


Sport	Frequency	Angle
Netball	15 $\times 6$	90°
Hockey	10 $\times 6$	60°
Rugby	26 $\times 6$	156°
Football	+ 9 $\times 6$	54°

60

$360 \div 60 = 6^\circ$ per person

Draw an accurate pie chart to show this information.



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

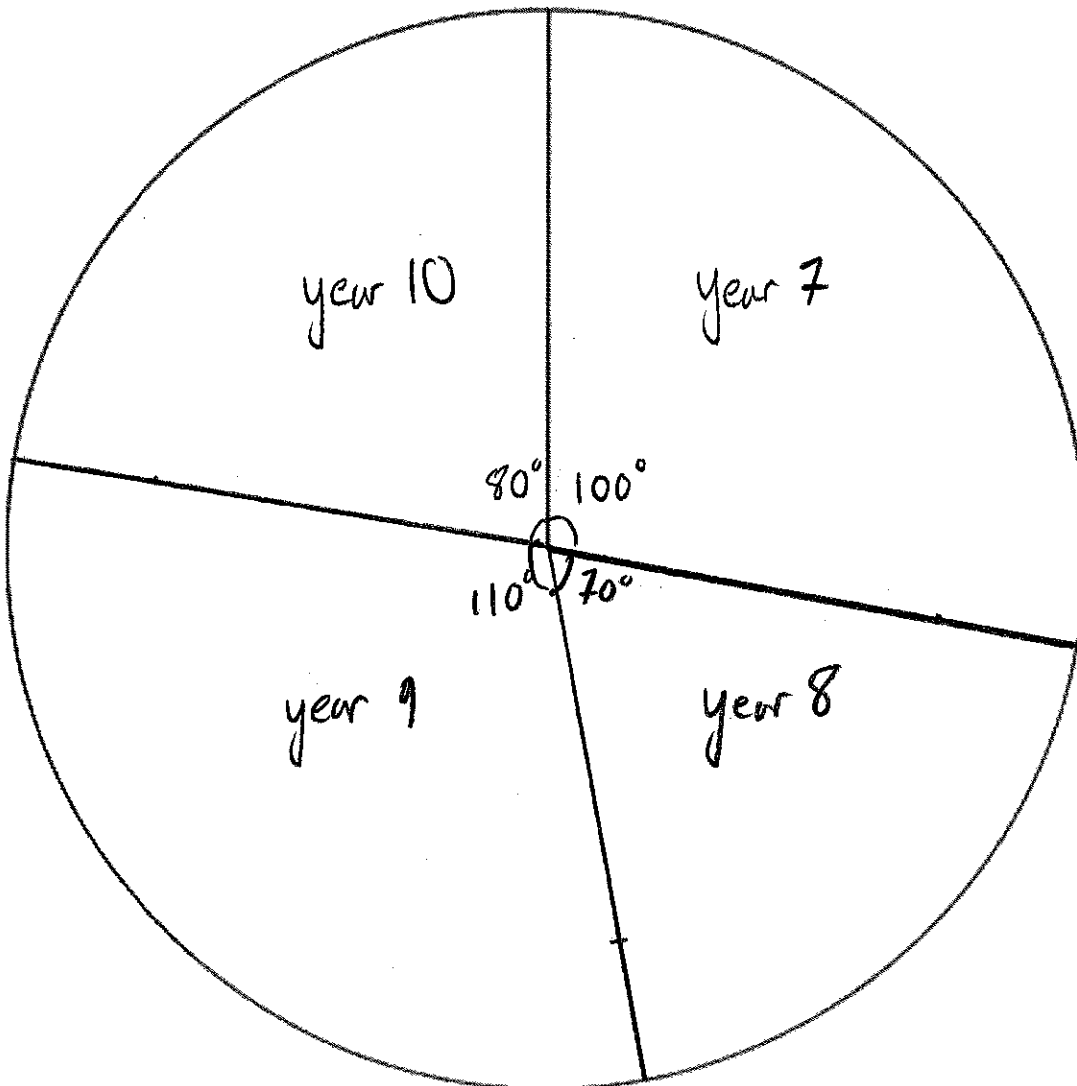


Year	Frequency	Angle
7	200 $\times 0.5$	100°
8	140 $\times 0.5$	70°
9	220 $\times 0.5$	110°
10	160 $\times 0.5$	80°

720°

$$360 \div 720 = 0.5^\circ \text{ per person}$$

Draw an accurate pie chart to show this information.



5. Nigel sells bottles of drinks.



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

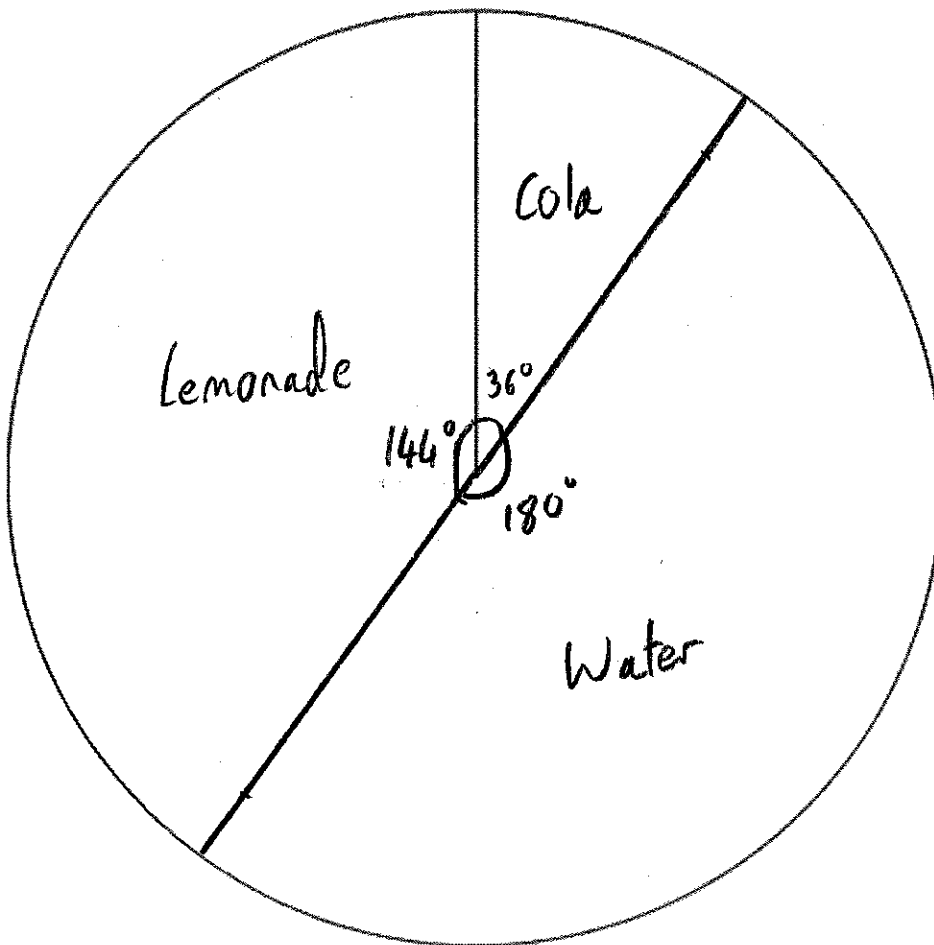
Drink	Percentage
Cola	10%
Water	50%
Lemonade	40%

$10\% \text{ of } 360 = 36^\circ$

$50\% \text{ of } 360 = 180^\circ$

$40\% \text{ of } 360 = 144^\circ$

Draw an accurate pie chart to show this information.



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

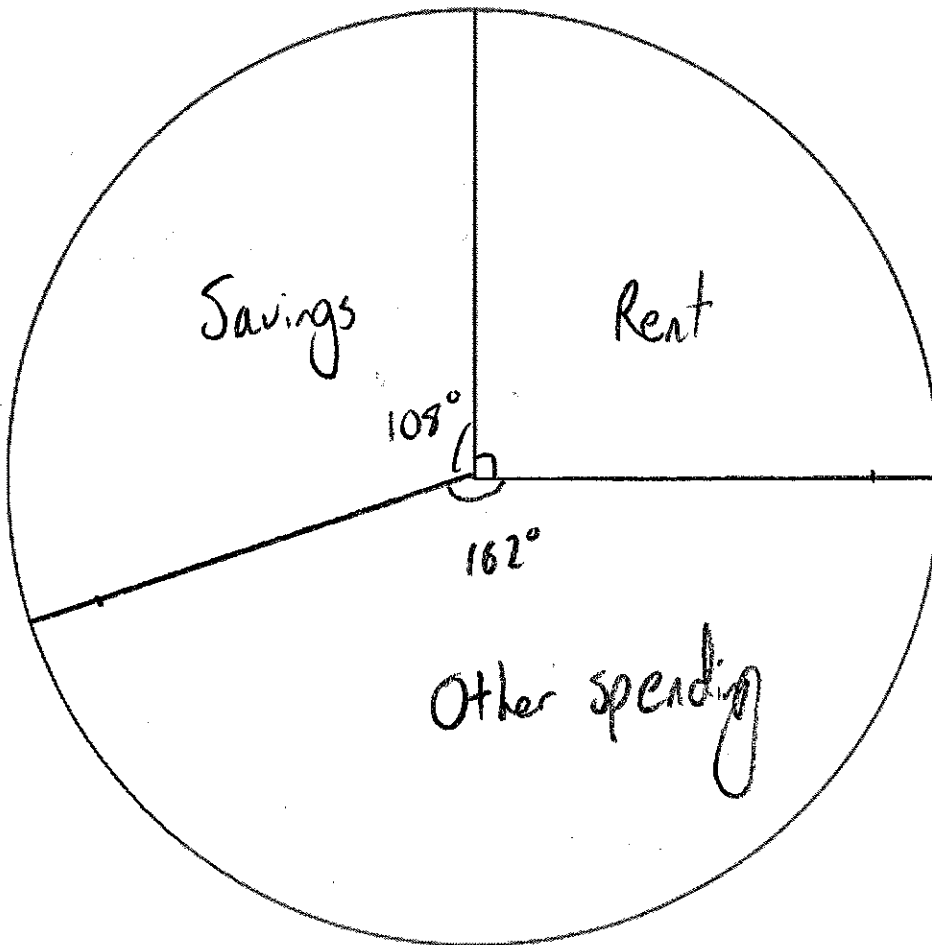


	Percentage	Angle in a pie chart
Rent	25%	90°
Other spending	45%	162°
Savings	30%	108°

(a) Complete the table.

(3)

(b) 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 x 4
Beef	9 x 4
Pork	57 x 4
Vegetarian	10 x 4

Angle
 56°
 36°
 228°
 40°

90

$$360 : 90 = 4^\circ \text{ per meal}$$

Draw an accurate pie chart to show this information.

