Sort and classify objects using a single criterion	Component 8	Entry 1.1

Name ………………………………………………………………………...

1   Look at the shapes below.
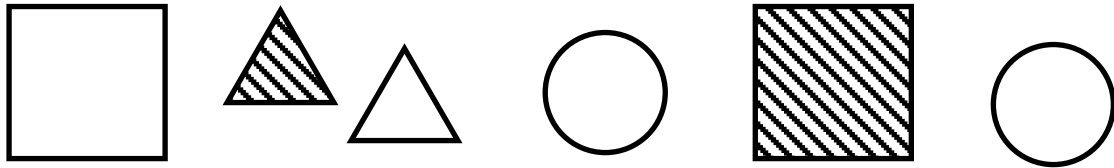
a)   How many of the shapes are plain white?   …………………………………………..

b)   How many of the shapes are striped?   …………………………………………..

2   Look at the letters below.

A B C D E F G H

a)   How many of the letters have only straight lines?   ………………………………..

b)   How many of the letters have only curved lines?   ………………………………..

c)   Draw a different letter that has only straight lines.   ………………………………..

3   Look at the numbers shown below.

1 2 3 4 5 6 7 8 9

Complete the table to sort the numbers into shaded and unshaded numbers

Shaded Numbers	Unshaded Numbers
2	1

1.1

Interpret and draw conclusions from a list or group of objects	Component 8	Entry 1.2

Name ………………………………………………………………...

1   Jack asked his friends about their favourite fast food.

     The list below shows their choices.

Fish and Chips	Burger
Burger	Pizza
Chinese	Burger
Burger	Indian
Chinese	Pizza
Pizza	Fish and Chips

     a)   How many people did Jack ask?   ……………………………………………

     b)   How many people chose Pizza?   ……………………………………………

     c)   Which was the most popular fast food?   ……………………………………………

     d)   Which was the least popular fast food?   ……………………………………………

2   Alex is sorting out her collection of games.

     She has the following games.

        Adventure : 9 games   Sport : 4 games   Puzzle : 5 games

     a)   How many games does she have altogether?   …………………………………..

     b)   How many sport and puzzle games does she have? …………………………………

     c)   Which type of game do you think is her favourite?

           …………………………………………………………………………………………..

1.2	

| Construct and interpret simple line graphs | Component 8 | Entry 1.3 |

Name …………………………………………………………………………...

1   The block graph below shows favourite holiday destinations.
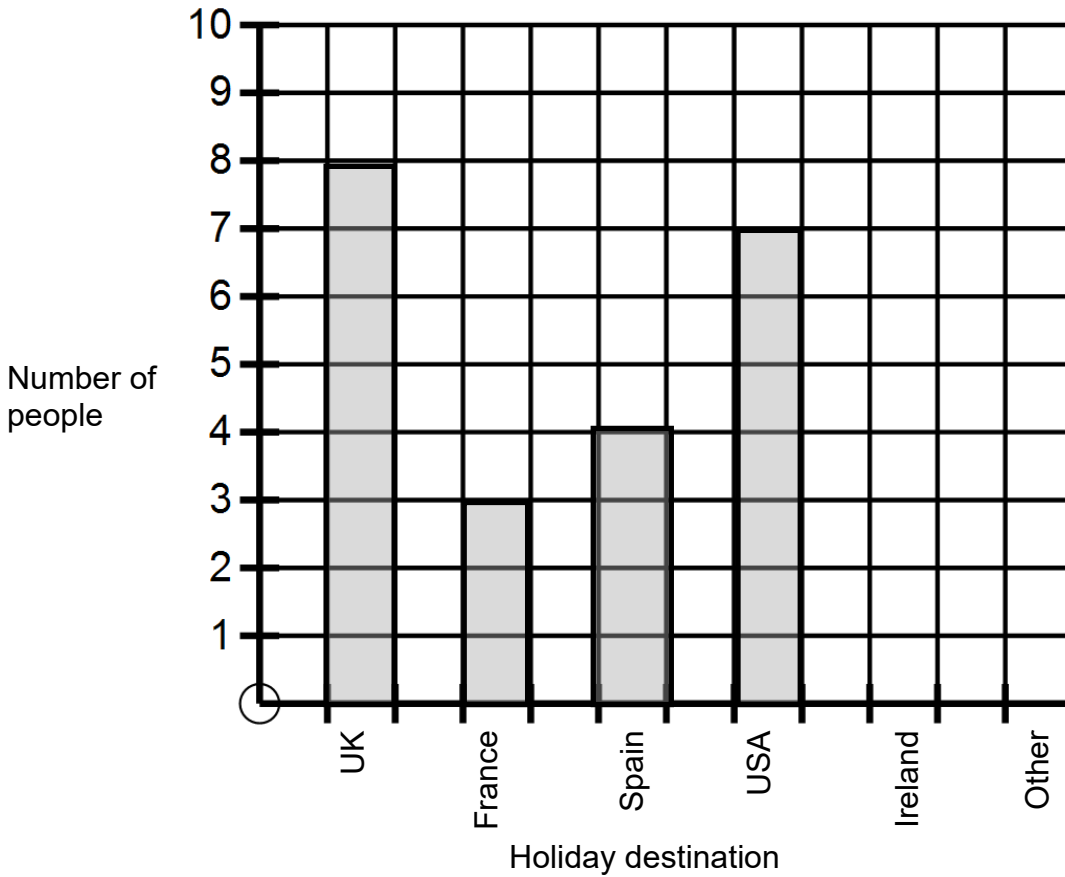
a)   How many people picked the USA as their favourite holiday destination?

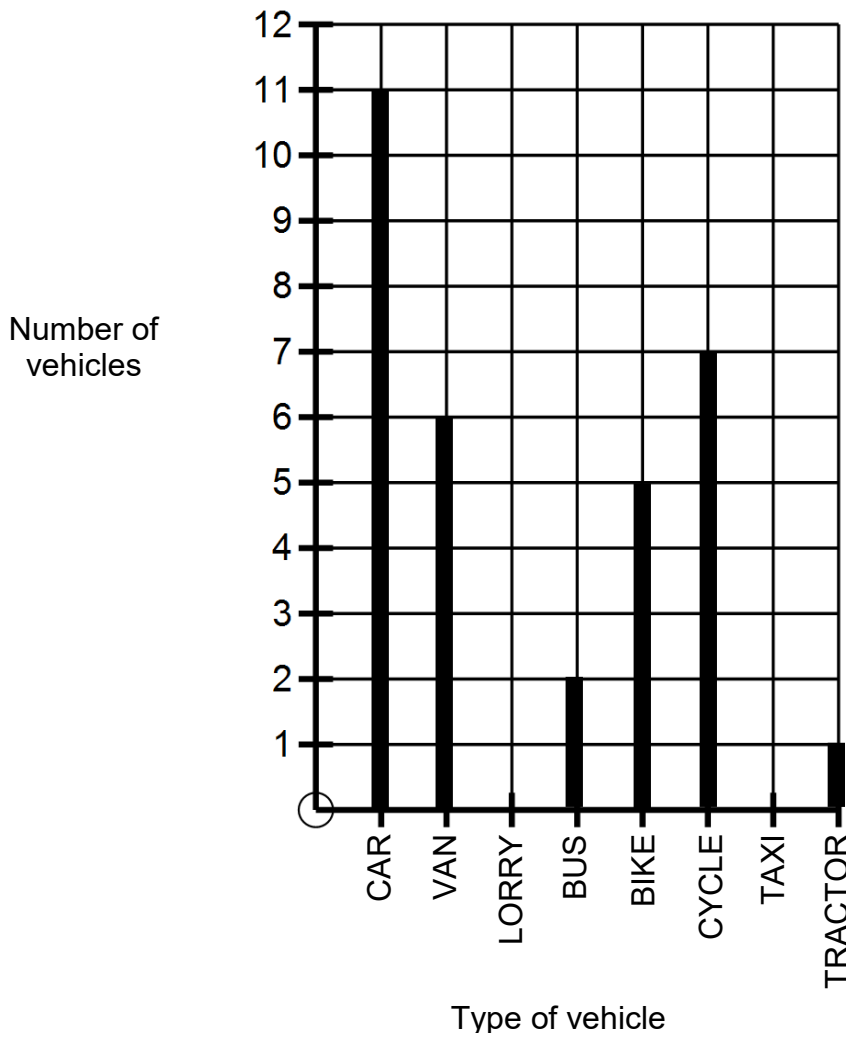..………………………………………………………………………………………………

b)   One person picked Ireland. Show this on the graph.

c)   Six people picked **Other**. Show this on the graph.

d)   Which was the most popular holiday destination?

..………………………………………………………………………………………………

2   The line graph shows the types of vehicles passing a checkpoint in 10 minutes.
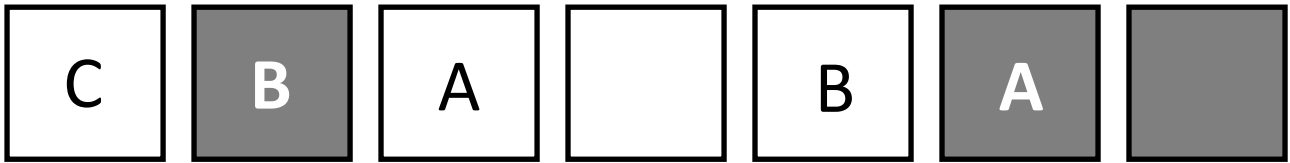

Type of vehicle

a)   8 lorries passed the checkpoint.

Show this on the graph.

b)   The same number of Bikes and Taxis passed the check point.

Show this on the graph.

c)   Which type of vehicle was seen the fewest number of times passing the checkpoint?

....

1.3

Sort and classify objects using more than one criterion	Component 8	Entry 2.1

Name …………………………………………………………………...

1   Look at the tiles below.

a)   How many of the unshaded tiles have a letter on?   ……………………………………..

b)   How many of the shaded tiles have a letter on?   ……………………………………..

c)   How many of the tiles have the letter A or B on them?   ………………………………

2   Look at the pictures below.

How many houses with a tree also have a car?...

2.1

3   Look at the numbers shown below.

1 2 3 4 5 6 7 8 9

Complete the table to sort the numbers.

Shaded Numbers less than 5	Unshaded numbers less than 5
2	
Shaded Numbers more than 4	**Unshaded numbers more than 4**

2.1

Collect information by survey	Component 8	Entry 2.2

Name …………………………………………………………………...

Ask at least 10 people to pick their favourite type of film.

Circle their answers in the list below.

1 Comedy	Action	Fantasy	Sci-fi	Horror	Romance	Other
2 Comedy	Action	Fantasy	Sci-fi	Horror	Romance	Other
3 Comedy	Action	Fantasy	Sci-fi	Horror	Romance	Other
4 Comedy	Action	Fantasy	Sci-fi	Horror	Romance	Other
5 Comedy	Action	Fantasy	Sci-fi	Horror	Romance	Other
6 Comedy	Action	Fantasy	Sci-fi	Horror	Romance	Other
7 Comedy	Action	Fantasy	Sci-fi	Horror	Romance	Other
8 Comedy	Action	Fantasy	Sci-fi	Horror	Romance	Other
9 Comedy	Action	Fantasy	Sci-fi	Horror	Romance	Other
10 Comedy	Action	Fantasy	Sci-fi	Horror	Romance	Other
11 Comedy	Action	Fantasy	Sci-fi	Horror	Romance	Other
12 Comedy	Action	Fantasy	Sci-fi	Horror	Romance	Other
13 Comedy	Action	Fantasy	Sci-fi	Horror	Romance	Other
14 Comedy	Action	Fantasy	Sci-fi	Horror	Romance	Other
15 Comedy	Action	Fantasy	Sci-fi	Horror	Romance	Other

2.2

Record results in lists, tally charts and tables	Component 8	Entry 2.3

Name …………………………………………………………………...

1   12 people were asked to pick their favourite sport.

Their choices are shown below.

1	Football	Cricket	Tennis	Athletics	Gymnastics
2	Football	Cricket	Tennis	Athletics	Gymnastics
3	Football	Cricket	Tennis	Athletics	Gymnastics
4	Football	Cricket	Tennis	Athletics	Gymnastics
5	Football	Cricket	Tennis	Athletics	Gymnastics
6	Football	Cricket	Tennis	Athletics	Gymnastics
7	Football	Cricket	Tennis	Athletics	Gymnastics
8	Football	Cricket	Tennis	Athletics	Gymnastics
9	Football	Cricket	Tennis	Athletics	Gymnastics
10	Football	Cricket	Tennis	Athletics	Gymnastics
11	Football	Cricket	Tennis	Athletics	Gymnastics
12	Football	Cricket	Tennis	Athletics	Gymnastics

Complete the tally table to show this information.

Sport	Tally
Football	
Cricket	
Tennis	
Athletics	
Gymnastics	

2   16 people were asked to name their favourite flavour of crisps.

Their choices are as follows.

Ready Salted	Cheese and Onion
Salt and Vinegar	Beef and Onion
Prawn Cocktail	Ready Salted
Cheese and Onion	Salt and Vinegar
Cheese and Onion	Salt and Vinegar
Salt and Vinegar	Ready Salted
Ready Salted	Prawn Cocktail
Beef and Onion	Salt and Vinegar

Complete the table to show this information

Flavour	Number of people
Ready Salted	
Salt and Vinegar	

2.3

Construct and interpret pictograms where one picture represents one item	Component 8	Entry 2.4

Name ……………………………………………………………………...

1 The pictogram shows the favourite subject chosen by students in class 7A.

Art	☺	☺	☺	☺			
English	☺	☺	☺	☺	☺		
Geography	☺	☺	☺	☺			
History	☺						
Maths	☺	☺	☺	☺	☺	☺	☺
Science	☺	☺	☺	☺	☺	☺	

Key: ☺ represents 1 student

a) How many students chose Science as their favourite subject? ………………………

b) Which two subjects were equally popular?

……………………………………… and ……………………………………

c) How many students were included in the survey? …………………………………………

2   The students in class 8A were asked to pick their favourite subject.

8 students chose Art   6 Students chose English   4 students chose Geography

2 students chose History   6 Students chose Maths   5 students chose Science

Show this information on the pictogram.

Art	
English	
Geography	
History	
Maths	
Science	

Key :

2.4

Interpret simple tables, diagrams, lists and graphs	Component 8	Entry 2.5

Name ……………………………………………………………………………...

1   The table below shows the points scored by quiz teams in a local league.

Team	The Aces	Brainbox	C-Crazy	Dreamteam	Eggheads	Foxters
Number of points	23	45	62	43	29	68

   a)   Which team is in the lead with the most points? ……………………………………………

   b)   How many points ahead of 'The Aces' are 'Eggheads'? ……………………………………

   c)   Which team is currently in third place? ……………………………………………………..

2   The list below shows the choices made when gym members chose their favourite
         type of exercise class.

Zumba	Thump	Thump
Spinning	Zumba	Spinning
Pilates	Spinning	Tri-fit
Thump	Step	Thump
Spinning	Pilates	Spinning
Spinning	Thump	Step

   a)   How many people were included in the survey?   …………………………………………

   b)   How many people chose Thump as their favourite class? ………………………………..

   c)   Which was the most popular class? …………………………………………………………

   d)   Which was the least popular class? …………………………………………………………

3   The graph below shows the rainfall recorded for the first 14 days in October.
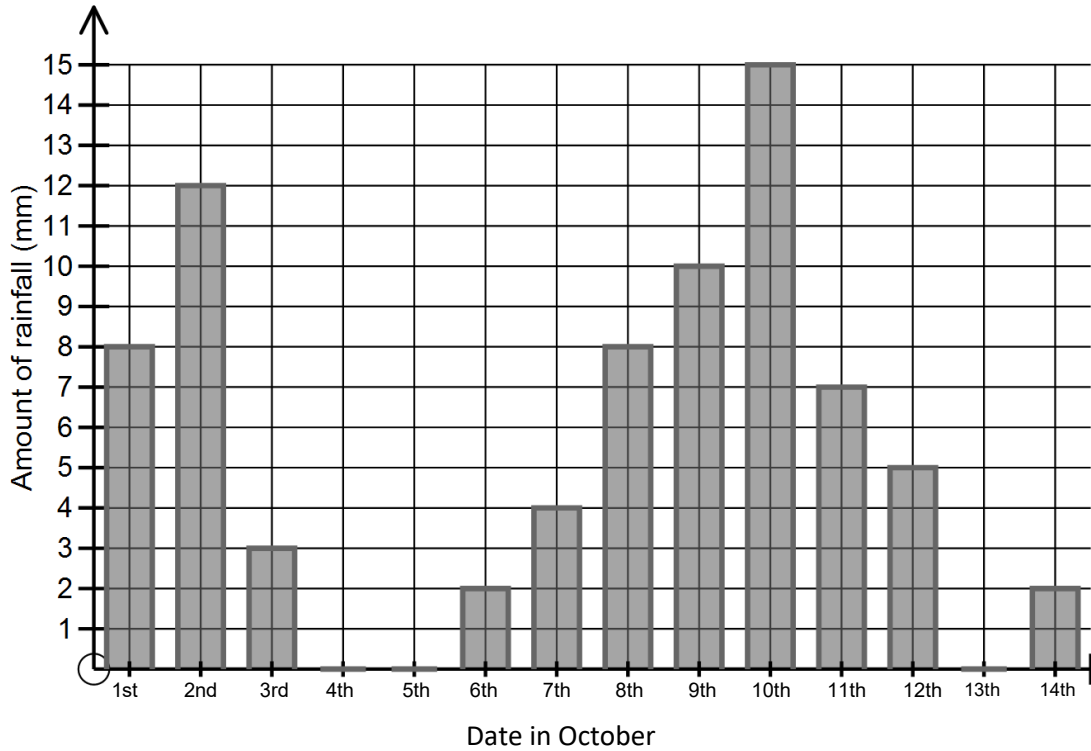
a)   On which day was there exactly 12 mm of rainfall?   ………………………………..

b)   Which day had the most rainfall?   …………………………………………………

c)   How much rain was there on the 11th of October? ………………………………

d)   Which two days had only 2 mm of rainfall?

……………………………….. and ……………………………………..

e)   Which three days had no rainfall?

……………………………………………………………………………………………

2.5		1.2	

Construct and interpret bar charts with the vertical axis scaled in ones or twos	Component 8	Entry 3.1

Name …………………………………………………………………...

1   The graph below shows how students in 9Y travel to school.

Method of travel
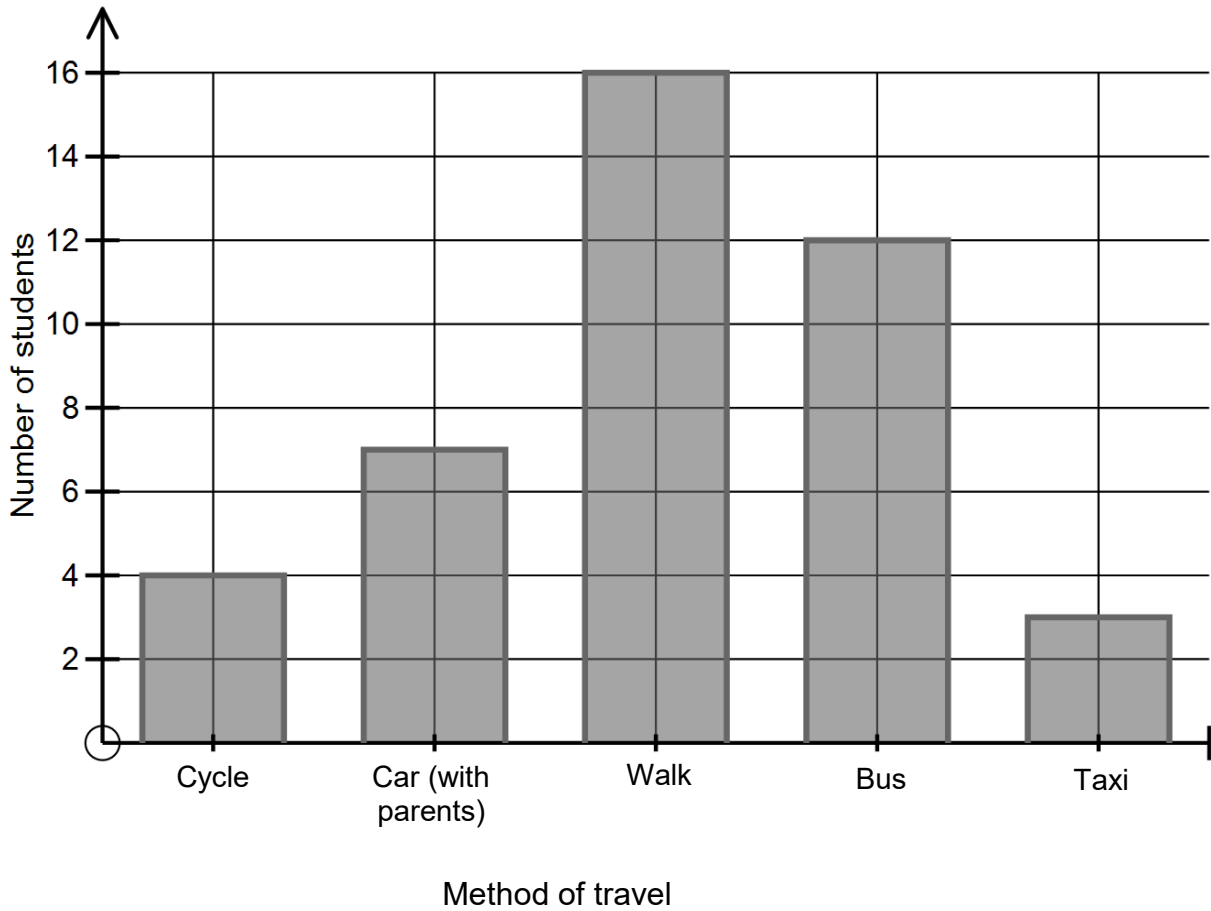
a)   How many students cycle to school?   …………………………………………….

b)   How many students travel by Taxi?   …………………………………………….

c)   How many more students walk than come by bus?   …………………………….

d)   How many students took part in the survey altogether?

      ………………………………………………………………………………………

2   Students in two year 7 classes were asked how they travel to school.

Their answers are shown in the table.

Method of travel	Cycle	Car with parents	Walk	Bus
Number of students	18	21	10	8

Show this information as a bar chart.

3.1		1.3	
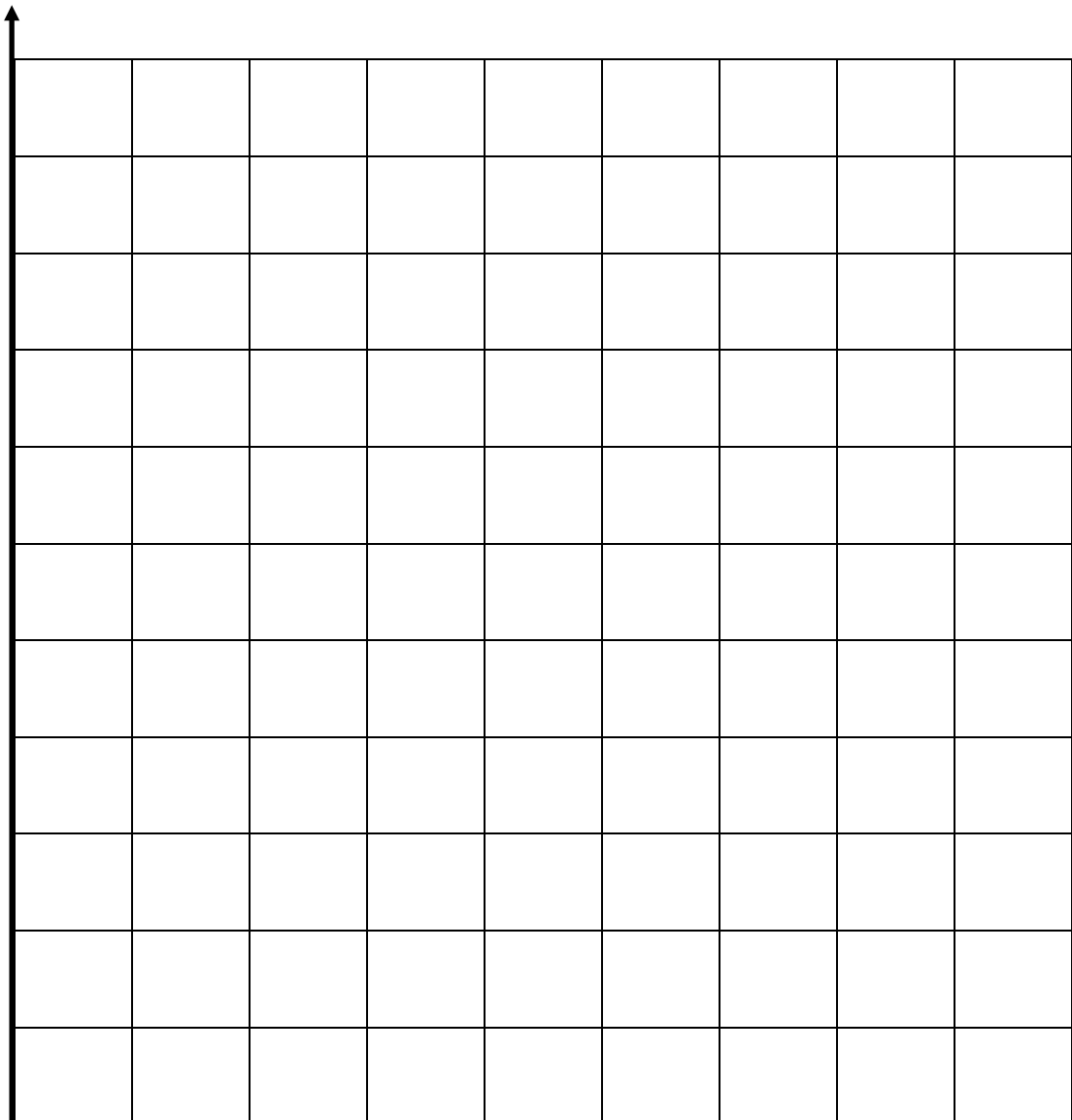
Construct and interpret pictograms where one picture represents more than one item	Component 8	Entry 3.2

Name …………………………………………………………………...

1   The pictogram shows some favourite types of TV programme.

Key: ☐ represents 2 people

a) Which was the most popular type of programme?   …………..………………………

b) How many people chose Soaps? ………………………………………………………

c) How many more people chose Films than News? ……………………………………

d) 11 people chose Music.

Show this on the pictogram.

2   Members of a youth club were asked to pick their favourite type of book.

7 students chose Factual   17 Students chose Thrillers   8 students chose Horror

5 students chose Romance   3 Students chose Historical

Show this information on a pictogram .

Key :   represents 2 students

Extract numerical information from lists, tables, diagrams and charts	Component 8	Entry 3.3

Name ………………………………………………………………………...

1 The timetable for a swimming pool is shown below.

	9.00	10.00	11.00	12.00	1.00	2.00	3.00	4.00	5.00	6.00
Saturday	Lessons		Public Swim							
Sunday	Public Swim			Splash Time			Public Swim			
Monday	Lessons	Toddler Time		Public Swim				Lessons		
Tuesday	Lessons	Public Swim						Lessons		
Wednesday	Aqua Aerobics		Public Swim				Lessons			
Thursday	Lessons	Public Swim			Aqua Aerobics			Lessons		
Friday	Lessons	Public Swim		Toddler time		Public Swim				

a)   How many sessions of Aqua Aerobics are there?   ………….……………………

b)   On Monday, what time does Toddler Time start?   ………….……………………

c)   What time does the Public Swim session end on Tuesday?…………………………

d)   How long is the Public Swim session on Wednesday?   ………….……………………

e)   How many days have Splash Time? ………………………………………………..

2   The table below shows the prices for a hotel in Blackpool for different months.

| | Price per night | |
	Adult	Child
May	£30	£18
June	£34	£20
July	£40	£22
August	£45	£25
September	£44	£24
October	£38	£21
November	£25	£15

BREAKFAST
£8.00 per person
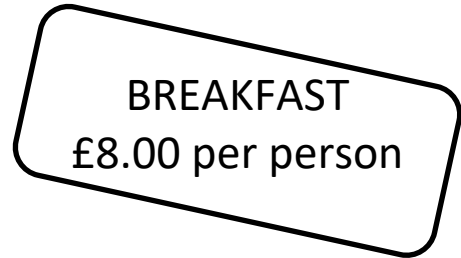
Work out the cost for each of the following

a)   2 adults staying for 1 night in September (no breakfast).

……………………………………………………………………………………………

b)   1 child and 1 adult staying for 2 nights in August (no breakfast).

……………………………………………………………………………………………

c)   2 adults staying for 1 night in July, with breakfasts.

……………………………………………………………………………………………

d)   1 adult and 2 children for 1 night in November, with breakfasts.

……………………………………………………………………………………………

3   Four friends each have a target of running 100 km in 6 weeks.

The chart below shows the distance they have done so far.

	10km	20km	30km	40km	50km	60km	70km	80km	90km	100km
Tom	▓	▓	▓							
Alice	▓	▓	▓	▓	▓					
Nile	▓	▓	▓	▓	▓	▓	▓			
Rick	▓	▓	▓							
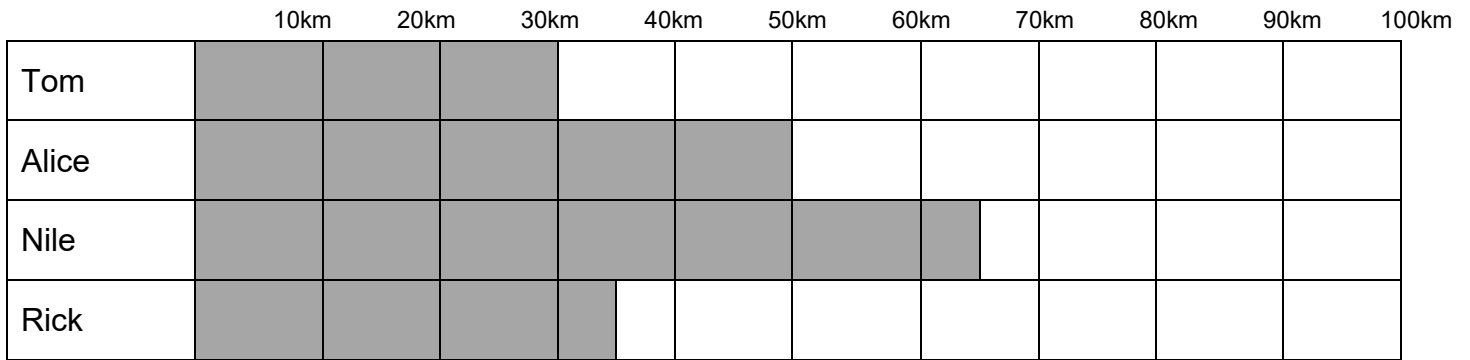
a)   How far has Tom run so far?   ……………………………………………………………

b)   How much more does Tom need to do to reach the 100 km target?

……………………………………………………………………………………………..

c)   How far has Rick run so far?   ……………………………………………………………

d)   How much further has Alice run than Rick?

……………………………………………………………………………………………..

3.3

Complete a frequency table given the original list of results	Component 8	Entry 3.4

Name …………………………………………………………………...

30 people were asked to name their favourite type of fruit.

Their answers are as follows.

apple	orange	apple	banana	melon	apple
melon	apple	grapes	banana	apple	banana
banana	apple	melon	grapes	apple	grapes
orange	banana	apple	apple	orange	melon
grapes	melon	orange	apple	orange	melon

1   How many people chose apple?   …………………………………………………………

2   How many people chose banana? …………………………………………………………

3   How many people chose melon? …………………………………………………………

4   Complete the frequency table to show the choices.

Type of fruit	Frequency
Apple	
Banana	
Grapes	
Melon	
Orange	

3.4		2.3	

Complete a tally chart and the resulting frequency table	Component 8	Entry 3.5

Name ………………………………………………………………………...

30 people were asked to name their favourite type of music.

Their answers are as follows.

rock	dance	other	classical	rock	rap
rap	rock	pop	rock	classical	pop
pop	classical	pop	rock	rap	dance
dance	pop	pop	rock	dance	pop
other	rap	dance	pop	dance	other

1   Complete the tally chart to show this information.

Type of music	Tally
Classical	
Dance	
Pop	
Rap	
Rock	
Other	

2)   Complete the frequency table to show this information.

Type of music	Frequency
Classical	
Dance	
Pop	
Rap	
Rock	
Other	

3.5

Compare two or more diagrams	Component 8	Entry 3.6

Name ………………………………………………………………………………..

Jim and Ellie both wash cars after school.

The pictogram shows the number of cars that **Ellie** has washed in one week.

Key ⬤ represents 2 cars

The Bar chart shows the number of cars that **Jim** has washed in one week.
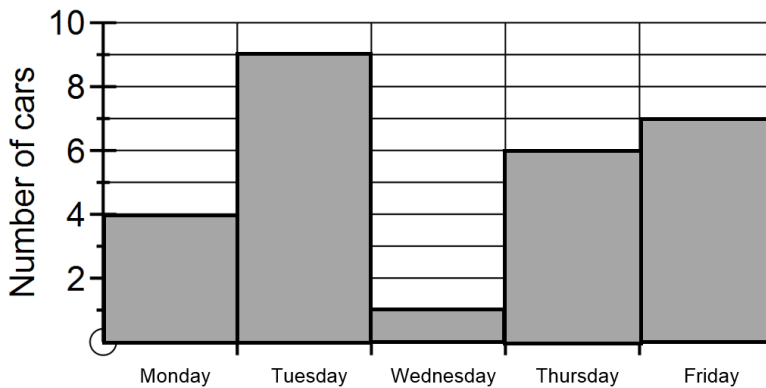
1   Who washed the most cars on Monday?   ………………………………………..………

2   Who washed the most cards on Tuesday? ………………………………………….…………

3   On which day did Ellie and Jim wash the same number of cars? ……………….……………

4   During the week Ellie washed 31 cars altogether.

     Jim claims that he washed more cars than Ellie. Is he correct?

     Show how you decide.

     ……………………………………………………………………………………………………

     ……………………………………………………………………………………………………

3.6

Solve one-step and two-step problems based on statistical information	Component 8	Entry 3.7

Name …………………………………………………………..…………………..

The graph shows the number of cars sold by 'The Car Shop' garage in **2013**
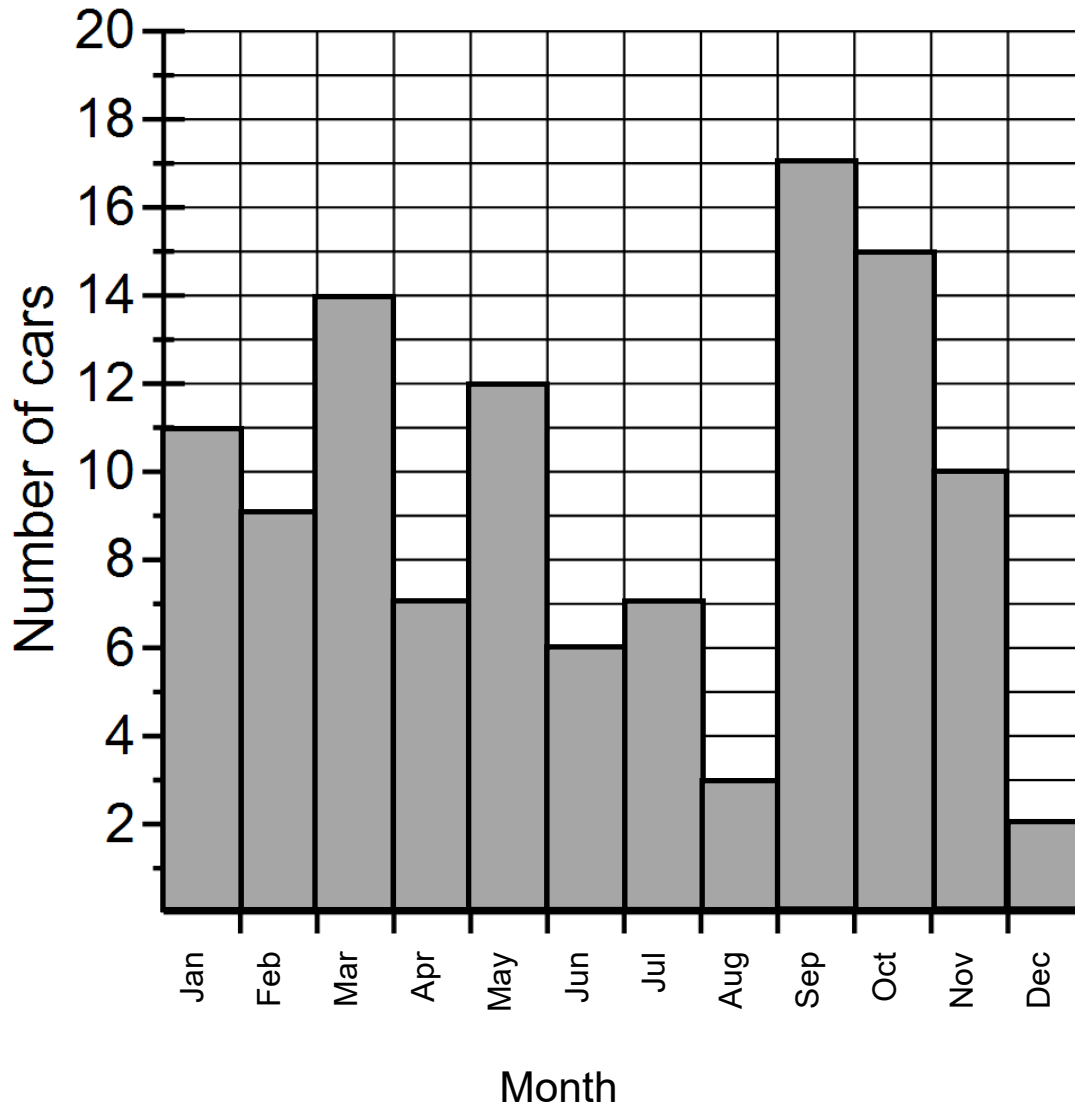
The table shows the number of cars sold by 'The Car Shop' garage in **2014**

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Number of cars sold	9	10	13	12	15	8	6	1	16	12	10	3

1   Which month had the highest number of sales in both 2013 and 2014?

     ....

2   Which month in both years had the same number of sales?

     ....

3   How many more cars were sold in September 2013 than September 2014?

     ....

4   How many more cars were sold in May 2014 than in May 2013?

     ....

5   How many more cars were sold during the first 3 months of 2013 than during the first

     3 months of 2014?

     ....

     ....

6   In which year were the most cars sold?

     Show how you decide.

     ....

     ....

     ....

3.7		2.5		1.2	